

SEMENOV, N. A., Dr. Tech Sci -- (diss) "Investigation of the operational qualities of navigational locks," Leningrad, 1960, 35 pp, 150 cop. (Leningrad Polytechnical Institute im M. I. Kalinin) (KL, 45-60, 124)

SEMENOV, N.

Speed-up the assimilation of the Volga-Baltic Sea Waterway.
Rech. transp. 23 no.7;8-9 Jl '64. (MTRA 17;10)

1. Nachal'nik Severo-Zapadnogo parokhodstva.

SEmenov, N.B.

22

Quality of transformer and turbine oils in U. S. S. R.
M. Ya. Kvartin and N. B. Semenov. Trudy Permi
Vsesoyuz. Nauch.-Tekh. Konferentsii po Promstrodstru i
Problemy Smazochnykh Massei 1936, 388, 433.—Thirty-
six references. A. A. Pustovnev

SEMENOV, N.B.

PROBLEMS AND PROGRESS IN THE
DETERMINATION OF THE STABILITY OF AVIATION
OILS. N. B. Semenov. Teste. Aeronautics
VNIIT. No. 1000. High-grade lubricating oil. No. 1.
1936, 147-7 (1937). Aviation oils prepared from 1925
ulfine Surakhany stocks and Bimba crude oil comply with
the requirements for aviation engines working under
normal conditions; they are not dependent under extreme
conditions, such as supercharging. The increase of the
octane no. of the fuel improves the performance of the
lubricating oil. The Slight, "Indiana" and British Air
Ministry tests are satisfactory for the evaluation of the
stability of the oil refined in the usual manner. The
exptl. procedure is described and the results are tabulated.

A. A. Bochtinguk

N.B. SEMENOV

ASA SLA METALLURGICAL LITERATURE CLASSIFICATION

SIMENOV, M. I. Cand. Tech. Sci.

Dissertation: "Investigation of the Process of Contact Oil-Filtering." Central Inst of Aviation Fuels and Oils--TsIATIM, 4 Jun 47.

SC: Vechernyaya Moskva, Jun, 1947 (Project #17836)

SEMELEV, N.F., inzh.

Promote advanced practices in the automation of production.
Mekh.i avtom.proizv. 14 no.2:59-60 F '60. (MIRA 13:5)
(Automation)

SEMELEV, N.G. (st. Rossosh'); SAVINTSEV, G.N., inzhener (st. Rossosh')

Experience of the Rossosh section. Put.i put.khoz. no.4:36-37
Ap '57. (MLRA 10:5)

1.Nachal'nik Rossoshanskoy distantsii puti Yugo-Vostochnoy dorogi
(for Semenov)
(Railroads--Ties)

SEmenov, N.G.

Hydroelectric power station on the Manakan River. Trudy
Lengidropsekta no.1:1C3-109 '64.

Dam on the Irelyakh River built on permafrost noncohesive soils.
Ibid.:110-114 (MIRA 08:10)

SOV/138-58-7-11/19

AUTHORS: Epshteyn, V.G., Semenov, N.I., and Tikhomirov, B.P.

TITLE: The Use of Sodium Sulphite for the Protection of Curing Bags Used in the Vulcanisation of Tyres (Primeneniye sul'fita natriya dlya zashchity varochnykh kamer pri vulkanizatsii avtopokryshek)

PERIODICAL: Kauchuk i rezina, 1958, Nr 7, pp 36 - 37 (USSR)

ABSTRACT: During vulcanisation, in processes using curing bags, sulphur diffuses from the carcass rubber into the outer surface of the bag. The bag becomes partially vulcanised after a number of operations and cracks and becomes useless.

Grease is usually applied to the interior of the tyre and to the surface of the bag to assist the forming process and improve the finish of the tyre. The grease applied to the tyre is usually a solution based on butyl rubber and benzine and that applied to the bag is an aqueous solution.

Sodium sulphite reacts freely with free sulphur and if it is present at the interface between the tyre and the bag, it will absorb the sulphur as it migrates and prevent diffusion into the curing bag. In order to study that action of the sodium sulphite, a proportion of sulphur

Card1/3

SOV/138-58-7-11/19

The Use of Sodium Sulphite for the Protection of Curing Bags Used
in the Vulcanisation of Tyres

isotope, S³⁵, was added to the carcass rubber mix and discs 3 mm thickness and 20 mm diameter made up from this mix. One such disc was then greased with the normal solution and another with a grease containing sodium sulphite. These discs were then put on top of similar-sized discs made from the rubber used for the curing bag and which had been treated with the normal water-based grease. The formula is given for this grease. The experimental grease contained 25 pbw of sodium sulphite to 100 pbw of K7 grease (100 pbw SKB rubber in 750 pbw benzine).

The specimens with the experimental grease and with normal grease were vulcanised under identical conditions. Table I shows the radioactive levels of the carcass rubber and of the curing-bag rubber after vulcanising for the two samples. The two lower rows of figures are for the Na₂SO₃ greased samples. In a further experiment,

Na₂SO₃ was introduced into both the benzine-based grease

Card2/3

SOV/138-58-7-11/19

The Use of Sodium Sulphite for the Protection of Curing Bags Used
in the Vulcanisation of Tyres

on the tyre and the water-based grease on the curing bag. The results of tests with similar samples are shown in Table 2. These indicate that the quantity of sulphur that has diffused from the carcass rubber into the curing bag is five times less when sodium sulphite greases are used, as compared with standard grease. The life of the curing bag will be increased due to the much slower rate of self-vulcanisation. There are 2 tables.

ASSOCIATION: Shinnyy zavod i Tekhnologicheskiy institut (Tire Factory and Technological Institute), Yaroslavl'

Card 3/3

- 1. Tires--Production
- 2. Vulcanization--Equipment
- 3. Sulphur--Absorption
- 4. Sodium sulfate--Performance

Semenov, N. I.

JDR/Cultivable Plants - Grains.

N-

Mag Jour : Ref zhur - Biol., No 3, 1958, 10717

Author : Semenov, N. I.

Inst : Kuban' Agricultural Institute.

Title : The Influence of Sowing Dates and Perennial Grass Covers
on Spring Hard Wheat Yields.

Orig Pub : sb. etud. nauchn. robot. Kubansk. s.-kh. in-ta, 1956,
(1957), No 1, 147-150.

Abstract : No abstract.

Card 1/1

SEMELEV, N.I.

Fall plowing in mountainous and subtropical regions of
Krasnodar Territory. Zemledelie 4 no.12:95-96 D '56.

(MLRA 10:2)

I. Agronom Adlerskoy Mashinno-traktornoy stantsii, Krasnodarskogo
kraya.
(Krasnodar Territory--Plowing)

СЕМЕНОВ, Н.И.

SHERSHOVA, F.M., inzhener; SARKISOV, G.M., inzhener; SEMEONOV, N.I., inzhener.

Protecting railroads from washouts. Put' i put. khoz. no.7:22-23
Jl '57. (MLRA 10:8)

(Soviet Central Asia--Railroads)

SEMELEV, N.I., inzhener.

Tugging by pushing without barge crews. Rech.transp. 15 no.5:
24-26 My '56. (MLRA 9:8)
(Towing)

SEMELEV, N.I.

Use of gabions and levee baskets for the stabilization of river
channels. Put' i put.khoz. 7 no.12:32-33 '63. (MIRA 16:12)

1. Nachal'nik otdela inzhenernykh sooruzheniy na Sredneaziatskoy
doroge, Tashkent.

SIMOV, V. I.

Dissertation -- "An Investigation of Hydraulic Resistance in Flowing of Gas-Liquid Mixtures in Horizontal Tubes." Cand Tech Sci, Power Engineering Inst. Acad Sci USSR, 1 Jul 71. (Vestn. Akad. Nauk SSSR, 1971, No. 12, p. 12.) (lectures on Moscow, Moscow, 22 Jun 71.)

See: Sov. Eng., 23 Dec. 1974

SEMENOV, N.I.

Hydraulic resistance of mixed gas-liquid flow in horizontal pipes.
Dekl.AN SSSR 104 no.4:513-516 O '55. (MLRA 9:2)

1.Energeticheskiy institut imeni G.M.Krzhizhanovskogo Akademii nauk
SSSR. Predstavlene akademikom G.M.Krzhizhanovskim.
(Gas flow) (Hydrodynamics)

SEMELEV, N.I.

Pulsations in the pressure of gas and liquid mixtures in pipes.
Teploenergetika [Energ. inst.] no.1:46-52 '59. (MIRA 13:2)
(Pipe--Hydrodynamics)

67642

SOV/96-60-1-6/22

10.4000

AUTHORS: Senchenov, R. I. and Sheynin, B. I., Candidates of
Technical Sciences.

TITLE: Referred Frictional-resistance Coefficients for the
Flow of Steam-water Mixture in Pipes

PERIODICAL: Teploenergetika, 1960, Nr 1, pp 33-37 (USSR)

ABSTRACT: A previous article published in Teploenergetika, Nr 6,
1958, has shown that the frictional resistance to the
flow of a two-phase mixture in a pipe may be represented
in relative units; pressure drop and resistance
coefficients. The frictional resistance may be calculated
by the usual formula (1), but certain modifications must
be made to it for the case of a steam-water mixture.
In particular, use should be made of the referred
resistance coefficient depending upon the volumetric
gas content, the Froude criterion and the relative
viscosity of the mixture. Graphs of the relative
frictional resistance as a function of the steam content
by weight of the mixture are plotted in Fig 1 for
pressures of 39, 69 and 117 atm. Experimental values
of relative volume and frictional resistance ✓

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SOV/66-60-1-6/22

Referred Frictional-resistance Coefficients for the Flow of
Steam-water Mixture in Pipes

30 mm internal diameter. The data are used to plot the graphs of Figs 2 to 4 of the resistance factor as a function of steam content by volume, whilst Fig 5 gives graphs of referred resistance coefficients as functions of gas content by volume when an air/water mixture flows in a horizontal pipe; these curves are plotted from the data of A. A. Armand. The shapes of the curves are discussed and it is concluded that at low steam-pressures the physical properties of a steam/water mixture are similar to those of an air/water mixture. As the pressure increases, the relative speed of the steam is reduced and the true dynamic head increases, so that the true resistance coefficient decreases to a value of unity. Therefore, the value of this true referred resistance coefficient may be considered as an index of the homogeneity of the mixture. The larger the value, the greater is the non-uniformity of the mixture. The maximum value of the true referred resistance coefficient

117430

86472

S/096/61/000/001/009/014
E194/E184

AUTHORS: Kosterin, S.I., Doctor of Technical Sciences,
Semenov, N.I., Candidate of Technical Sciences, and
Tochigin, A.A., Engineer

TITLE: The Relative Speeds of Steam-Water Flows in Vertical
Unheated Tubes

PERIODICAL: Teploenergetika, 1961, No. 1, pp. 58-65

TEXT: The flow of gas-liquid mixtures, including steam-water mixtures is accompanied by relative motion of the two phases. The relative motion occurs because of the different densities and viscosities of the components of the two-phase mixture. Knowledge of the laws of the relative speeds is important in calculations on boilers and atomic reactors. Hitherto circulation calculations in steam boilers have made use of approximate data based on true steam content presented in the form of nomograms. There are as yet no generalised relationships for the true steam content or relative speed. The present tests were made with steam-water flow in vertical tubes of two diameters (17 and 30 mm) on the rig illustrated schematically in Fig.1. This consists of an , //

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E194/E184

The Relative Speeds of Steam-Water Flows in Vertical Unheated Tubes

experimental tube 7.5 m high, a mixer for preparing the steam-water mixture, throttles to measure the rates of flow of steam and water and other auxiliary devices. The experimental procedure is described, and in particular the method of assessing the ratio of gas to liquid by γ -ray irradiation from a tin 113 source is described in considerable detail. In discussing the radiation method formulae are derived for different types of flow including emulsion flow when liquid flows near the tube walls and gas in the centre. Study of the nature of flow was not a main object of the investigation, but arrangements were made for partial visual observation of flow structure so as to select the right method of calculating the gas content of the flow. In all the tests the flow was of either the emulsion or annular types. The tests were made at pressures of 40, 70 and 120 atm., the mixture speeds ranged from 1.6 to 10 m/sec and the steam content by output from 0.20 to 0.99. By definition the relative speed of flow of the components of the mixture can be expressed simply in terms of the true steam content

of steam content by ✓

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S/096/61/000/001/009/014
E194/E184

The Relative Speeds of Steam-Water Flows in Vertical Unheated Tubes

output with Froude number constant constructed from the experimental results are plotted in Fig.3 for three pressures. For clarity they have been displaced relative to one another upwards along the y-axis. It will be seen that the curves of steam content by output as function of true steam content increase steadily. The true steam content is usually less than the steam content by output which means that the steam has a positive speed relative to water for all mixture conditions considered. The graphs are approximately rectilinear for steam contents by output below 0.5 and above this they are curved, the curvature being greater for low Froude numbers of mixture and pressure. An explanation of this curvature is given in terms of flow structure. As the Froude number and the pressure increase the curves run together until the true steam content is the same as the steam content by output. Fig.4 compares curves of steam content by output as function of true steam content for tubes of 30 and 17 mm diameter with constant Froude number. It will be seen that there is satisfactory coincidence of the true steam content in the tubes //

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E194/E184

The Relative Speeds of Steam-Water Flows in Vertical Unheated Tubes if flow takes place with equal Froude numbers. Consequently, the influence of tube diameter on the true steam content is satisfactorily expressed in terms of the Froude number of the mixture. The results are briefly compared with previously published work; agreement is generally good and the reasons for certain differences are discussed. The graphs of steam content by output were used to calculate the speed of the steam relative to the water and the corresponding curves for three pressures are plotted in Fig. 5. The speed of the steam is always greater than that of the liquid however low the steam content. The relative speed of the steam increases with an increase in the steam content and in some cases reaches a maximum before diminishing slightly at very high steam contents. It is concluded that the true steam content depends on three main criteria; the steam content by flow, the referred flow, and the Froude criterion. There are 5 figures, 1 table and 2 references: 1 Soviet and 1 English.

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E194/E184

The Relative Speeds of Steam-Water Flows in Vertical Unheated
Tubes

ASSOCIATION: Energeticheskiy institut AN SSSR
(Power Engineering Institute AS USSR)

Card 5/5

✓

SEMELEV, N.I.; TOCHIGIN, A.A.

True steam content of steam-water flows in vertical unheated pipes.
Inzh.fiz.zhur. 4 no.7:30-34 Jl '61. (MIRA 14:8)

1. Energeticheskiy institut imeni G.M.Krzhizhanovskogo, Moskva.
(Steam flow)

28905
S/170/61/004/011/003/020
B104/B112

11.7430

AUTHORS: Semenov, N. I., Tochigin, A. A.

TITLE: Analytical investigation of a laminar flow of a biphase mixture in inclined tubes

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 11, 1961, 29-36

TEXT: The authors derive exact solutions of the hydrodynamic equations of a laminar flow of a biphase mixture in inclined and horizontal tubes. The equation of continuity and the kinetic equation are given without consideration of the vector components perpendicular to the flow direction. The authors derive the following expressions for the velocities of gaseous and liquid phases:

$$w_2(\epsilon, \theta) = -\frac{a^2}{2\mu_2} \frac{\partial p_r}{\partial z} \left[\frac{\cos \theta - \operatorname{ctg} \theta_2 \sin \theta}{\operatorname{ch} \epsilon + \cos \theta} + \right. \\ \left. + 4 \int_0^\infty \frac{[1 - \mu (\operatorname{sh} m \theta_1 - \mu J \operatorname{ctg} \theta_2 \operatorname{sh} m \theta_1)]}{\operatorname{sh} m \pi [(1 + \mu) \operatorname{sh} m \pi - (1 - \mu) \operatorname{sh} m (\pi - 2\theta_2)]} \times \right] \quad (11) \text{ and } \checkmark$$

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S/170/61/004/011/003/020
B104/B112

Analytical investigation of ...

$$\begin{aligned}
 w_2(\epsilon, \theta) = & -\frac{R^2}{2\mu_2} \frac{\partial p_r}{\partial z} \left\{ \frac{\cos \theta}{\operatorname{ch} \epsilon + \cos \theta} + \right. \\
 & + \frac{4[1 - \frac{\circ}{\mu}(1-J)]}{1 + \frac{\circ}{\mu}} \left[\frac{\theta(1 - \operatorname{ch} 2\epsilon \cos 2\theta) + \epsilon \operatorname{sh} 2\epsilon \sin 2\theta}{\pi(\operatorname{ch} 2\epsilon - \cos 2\theta)^3} \right. \\
 & \left. - \frac{\sin 2\theta}{2\pi(\operatorname{ch} 2\epsilon - \cos 2\theta)} - \frac{1}{4} \frac{1 + \operatorname{ch} \epsilon \cos \theta}{(\operatorname{ch} \epsilon + \cos \theta)^3} \right] \} \quad (13) \text{ and}
 \end{aligned}$$

$$\begin{aligned}
 w_1(\epsilon, \theta) = & -\frac{R^2}{2\mu_1} \frac{\partial p_r}{\partial z} (1-J) \left\{ \frac{\cos \theta}{\operatorname{ch} \epsilon + \cos \theta} + \right. \\
 & + \frac{4[1 - \frac{\circ}{\mu}(1-J)]}{(1 + \frac{\circ}{\mu})(1-J)} \left[\frac{\theta(1 - \operatorname{ch} 2\epsilon \cos 2\theta) + \epsilon \operatorname{sh} 2\epsilon \sin 2\theta}{\pi(\operatorname{ch} 2\epsilon - \cos 2\theta)^3} \right. \\
 & \left. - \frac{\sin 2\theta}{2\pi(\operatorname{ch} 2\epsilon - \cos 2\theta)} + \frac{1}{4} \frac{1 + \operatorname{ch} \epsilon \cos \theta}{(\operatorname{ch} \epsilon + \cos \theta)^3} \right] \} \quad (14)
 \end{aligned}$$

KOSTERIN, S.I., doktor tekhn.nauk; SEMENOV, N.I., kand.tekhn.nauk; TOCHIGIN,
A.A., inzh.

Relative speeds of currents of steam and water mixture in unheated
vertical pipes. Teploenergetika 8 no.1:58-65 Ja '61.
(MIRA 14:4)

1. Energeticheskiy institut AN SSSR.
(Steam pipes—Fluid dynamics)

KOSTERIN, S.I.; POLYAKOV, V.V.; SEMENOV, N.I.; TOCHIGIN, A.A.

Hydraulic resistance of steam-water flows in vertical unheated pipes.
(MIRA 15:7)
Inzh.-fiz. zhur. 5 no.7:3-10 Jl '62.

1. Institut mekhaniki AN SSSR, Moskva.
(Hydrodynamics)

SEMENOV, M.I., kand. tekhn. nauk; KOSTERIN, S.I., prof., doktor tekhn.
nauk [deceased]

Results of the study of sound velocity in moving gas-liquid mixtures.
Teploenergetika 11 no.6:46-51 Je '64. (MIRA 18:7)

1. Institut mekhaniki AN SSSR.

SEMENOV, N.I., podpolkovnik

Using aviatic- in coast antiamphibious defense. Mor. sbor. 47
no.5:29-35 My '64. (MIRA 18:6)

SEMENOV, N.I.

Clearance height control gate. Put' i put. khoz. 9 no.11:26
'65. (MIRA 18:11)

1. Nachal'nik otdela inzhenernykh sooruzheniy Sredneaziatskoy
dorogi, Tashkent.

L 8138-66 EWT(m)/EWP(j)/T RM

ACC NR: AP5025027

SOURCE CODE: UR/0286/65/000/016/0082/0082

44.55

44.55

44.55

AUTHORS: Romanov, L. M.; Semenov, N. I.; Yenikolopov, N. S.; Rakova, G. V. *44.55*

ORG: none

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 82

TOPIC TAGS: *44.55* polymer, polymerization, polyformaldehyde, Friedel Kraft catalyst

ABSTRACT: This Author Certificate presents a method for obtaining high-molecular weight polyformaldehyde by the polymerization of trioxane in an inert organic solvent in the presence of a Friedel-Kraft catalyst. To increase the polymerization rate, the process is carried out in the presence of polar organic substances having high dielectric constants (halogen derivatives of hydrocarbons, nitriles, and nitro-compounds of aliphatic and aromatic hydrocarbons).

SUB CODE: OC/ SUBM DATE: 30Jan62

42

B

SEMELEV, N.K., kapitan meditsinskoy sluzhby

Treatment of tetanus with a lytic cocktail in combination with
barbiturates; experimental and study. Voen.-med. zhur. no. 1:54-
56 Ja '60. (MIRA 14:2)

(TETANUS) (ATUONOMIC DRUGS) (BARBITURATES)

POPOV, V.I., prof. (Leningrad, ul. Gogolya, d.19, kv.7); SEMENOV, N.K.

Pathogenesis and treatment of tetanus. Vest.khir. 85 no.12:
32-39 D '60. (MIRA 14:1)

1. Iz kliniki obshchey khirurgii (nach. - prof. V.I. Popov)
Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.
(TETANUS)

SEMELEV, N.K., kapitan meditsinskoy sluzhby

Treatment of tetanus with phenothiazine derivatives in
combination with barbiturates. Voen.-med. zhur. no.11:53-56
N '61. (MIRA 15:6)
(PHENOTHIAZINE) (BARBITURATES) (TETANUS)

SEMENOV, N.K.; RESHETOV, A.I.

Treatment of tetanus. Sov. med. 25 no.3:64-71 Mr '61.
(MIRA 14:3)
1. Iz kafedry obshchey khiurugii (nachal'nik - prof. V.I.Popov)
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.
(TETANUS)

SEMELEV, N.K.; RAZUMEYEV, A.N.

Electrophysiological analysis of the pathogenesis in tetanus
intoxication. Zhur. mikrobiol. epid. i immun. 32 no.5:100-105 My
'61. (MIRA 14:6)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.
(ELECTROENCEPHALOGRAPHY) (TETANUS)

SEMENOV, N.K.(Leningrad, K-18, Pesochnaya ul.,24, kv.49)

Purposefulness of palliative stomach resection combined with
chemotherapy in cancer. Vop. onk. 10 no.1:74-81 '64.
(MIRA 17:11)
1. Iz khirurgicheskogo otdeleniya (zav. - N.K. Semenov) Lenin-
gradskogo oblastnogo onkologicheskogo dispansera (glavnnyy vrach -
L.N. Akinchev).

SEMELEV, N.K.

Combined treatment of neglected forms of stomach cancer.
Vest. khir. no.10:9-14 '64. (MIRA 19:1)

1. Iz khirurgicheskogo otdeleniya (zav. - N.K. Semenov)
Leningradskogo oblastnogo onkologicheskogo dispansera
(glavnnyy vrach - L.N. Akinchev).

[S E M E N O V , N . M .]

Defektoskopiya metallov i zbornik stat'ev ("Flaw Detection in Metals"; Collection of Articles) Moscow, Oborongiz, 1952. 458 p. Extract slip inserted. 4,550 copies printed.

Ed.: D.S. Shlyubov, Candidate of Technical Sciences; Ed.: M.G. Iakimovskaya, Tech. Ed.; V.P. Robkin; Manager; Ed.: A.S. Zayrovskaya, Editor-in-Chief.
PURPOSE: This book is intended for engineers and technicians in the field of nondestructive inspection and testing of metals.

CONTENTS: This collection of articles deals with methods of nondestructive inspection and testing of metals. Results of investigations conducted at scientific research institutes and plants or magnetic, electrical, X-ray, ultrasonic, and fluorescent-penetrant methods of flaw detection are described. Detailed descriptions of flaw-detection methods and equipment are presented. Data are given on the status of the development of flaw-detection methods in non-Soviet countries. No personalities are mentioned. References follow several of the articles.

Dulik, A.A. Magnetization of Parts by Alternating Current and Inspection by the Magnetic-particle Method	167
Sytina, D.G. Measuring Magnetic Fields on Parts of Intricate Shape and Inspection of Blanks by the Magnetic-particle Method	55
Bordovetskiy, S.M., and G.Yu. Silla-Novitskiy. Equipment for Inspecting Parts by the Magnetic-particle Method	62
Semenov, I.M. Automatic Flaw Detector for Inspecting Mass-produced Steel Parts	75
Bordovetskiy, S.M., and G.Yu. Silla-Novitskiy. Electromagnetic Induction Method of Flaw Detection	80
Pashchenko, I.M. Some Methods and Instruments for Nondestructive Inspection of the Thicknesses of Coatings on Parts	111
Pashchenko, I.M., V.V. Practical Application of Electromagnetic Methods of Non-destructive Testing	117
Serevny, I.M. Flaw Detection in Light-alloy Parts by the Electromagnetic Induction Method	126
Averchand, P.A. High-frequency Induction Instrument for Detecting Cracks and Intergranular Corrosion	133
Polyak, M.V. Fluorescent-penetrant Flaw-detection Method and the Experience gained by its Use in Machine Building	139
Laz'ko, S.P. Magnetic and Fluorescent-penetrant Inspection of Parts in the Repair and Servicing of Aircraft Equipment	155
Dulik, A.A. Characteristic Features of the Use of the Fluorescent-penetrant Method of Inspecting Parts	163
Silla-Novitskiy, O.Pu. Nondestructive Magnetic Methods for Measuring Thicknesses of Coatings	166
Ovchinnikov, I.P. Electrical Thickness Gauge for Measuring Anodized Coatings of Aluminum-alloy Parts	184
Serevny, I.M. Thermoelectrical Method of Measuring Thicknesses of Electroplated Coatings	189
Serevny, I.M. Thermoelectrical Method of Inspecting the Quality of Bonds in Haptials	192
Zvezdochkin, B.I. Use of Back-scattering Beta-radiation for Inspecting Thicknesses of Coatings	196
Chernoborov, N.Y. New X-Ray Equipment and Image Recorders for X-Ray Flaw Detection	202
Chernoborov, N.Y. X-Ray Tube With Rotating Anode	219
Ranayev, D.B. Ultrasonic Flaw Detection	241
Laz'ko, N.V., and G.V. Prokof'yev. Equipment for Ultrasonic Inspection	256
X Laz'ko, N.V., and D.S. Shlyubov. General Characteristics of the Pulse-Echo Type Ultrasonic Flaw-detection Method	267
Dulik, A.A. Characteristic Features of the Pulse-Echo Type Ultrasonic Flaw-detection Method	284
Emel'yanov, M.P. Ultrasonic Flaw-detection in Forgings and Valuation of the Size of the Surface Revealed	299
X Laz'ko, N.V., and G.V. Prokof'yev. Automation of Ultrasonic Inspection	313
X Shlyubov, D.S., and I.I. Semenov. Application of Ultrasonic Vibrations for Processing and Testing Materials	323

SEmenov, N.M., inzh.

~~Fourth International Fair of Radio and Television Equipment in Yugoslavia. Avtom., telem. i sviaz' 2 no.5:45-47 My '58.~~

(MIRA 11:5)

(Ljubljana--Radio--Exhibitions)

SEMENOV, N. M.

Razvitiye ustroistv signalizatsii, tsentralizatsii, blokirovki i sviazi.
[Development in the field of signaling, centralization, block system and communications]. (In Levin, B. I. Osnovnye voprosy piatiletnego plana
vosstanovleniya i razvitiia zheleznodorozhnogo transporta. "Oskva, 1947,
p. 334-346).

DLC: HE3137.14

SO: SOVIET TRANSPORTATION AND COMMUNICATION, A BIBLIOGRAPHY, Library of Congress

BRYLEYEV, A.M., laureat Stalinskoy premii, inzhener; GAMBURG, Ye.Yu., inzhener, retsenzent; GOLOVKIN, M.K., inzhener, retsenzent; KAZAKOV, A.A., kandidat tekhnicheskikh nauk, retsenzent; KUT'IN, I.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; LEONOV, A.A., inzhener, retsenzent; SEMENOV, N.M., laureat Stalinskoy premii, inzhener, retsenzent; CHERNYSHEV, V.B., inzhener, ratsenzent; VALUYEV, G.A., inzhener, retsenzent; METTAS, N.A., laureat Stalinskoy premii, inzhener, retsenzent; NOVIKOV, V.A., dotsent, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; SHUPOV, V.I., kandidat tekhnicheskikh nauk, retsenzent; KLYKOV, A.F., inzhener, retsenzent; YUDZON, D.M., tekhnicheskiy redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznyodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegiia A.F.Baranov [1 dr.] Glav.red. E.F.Budoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Card 2) (MLRA 8:2)
(Railroads--Signalizing) (Railroads--Communication systems)

BARANOV, A.F., redaktor; BIZYUKIN, D.D., redaktor; VAKHNIN, M.I., otvetstvennyy redaktor toma, professor, doktor tekhnicheskikh nauk; VEDENISOV, B.N., redaktor; IVLIYEV, I.V., redaktor; MOSHCHUK, I.D., redaktor; RUDOV, Ye.P., glavnyy redaktor; SOKOLIMSKIY, Ya.I., redaktor; SOLOGUBOV, V.N., redaktor; SHILEVSKIY, V.A., redaktor; ALFEROV, A.A., inzhener; ANASHKIN, B.T., inzhener; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, inzhener; BELENKO, K.M., dotsent; BORISOV, D.P., dotsent, kandidat tekhnicheskikh nauk; ZHIL'TSOV, P.N., inzhener; ZEBR, N.R., inzhener; IL'YENKOV, V.I., dotsent, kandidat tekhnicheskikh nauk; KAZAKOV, A.A., kandidat tekhnicheskikh nauk; KRAYZMER, L.P., kandidat tekhnicheskikh nauk; KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; MAYSHEV, P.V., professor, kandidat tekhnicheskikh nauk; MARKOV, M.V., inzhener; NELEPETS, V.S., dotsent, kandidat tekhnicheskikh nauk; NOVIKOV, V.A., dotsent; ORLOV, N.A., inzhener; PETROV, I.I., kandidat tekhnicheskikh nauk; PIVKO, G.M., inzhener; PODODIN, A.M., inzhener; RAMLAU, P.N., dotsent, kandidat tekhnicheskikh nauk; ROGINSKIY, V.N., kandidat tekhnicheskikh nauk; RYAZANTSEV, B.S., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk; SNARSKIY, A.A., inzhener; FEL'DMAN, A.B., inzhener; SHASTIN, V.A., laureat Stalinskoy premii, inzhener; SHUR, B.I., inzhener; GONCHUKOV, V.I., inzhener, ratsenzent; NOVIKOV, V.A., dotsent, ratsenzent; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, ratsenzent;

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznodorozhnika, Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'.
Red. knilastia A.F. Baranov

SEmenov, N.M.

~~Introducing new equipment for signaling, central control, block systems and communication. Zhel.dor.transp. 39 no.11:65-72 N '57.~~

1.Nachal'nik Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.
(Railroads--Signaling)

~~SEMINOV, N.M.~~

To new success in our work. Avtom., telem. i sviaz' 2 no.1:1-3
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SEMENOV, N.M.

Tasks of communications men in the first year of the seven-year
plan. Avtom., telem. i sviaz' 3 no.2:4-6 F '59. (MIRA 12:4)

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SEMELEV, N.M.

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(Railroads--Communication)

SEMELEV, N.M.

New achievements in the seven-year plan. Avtom., telem.,
sviaz' 4 no.1:1-3 Ja '60. (MIRA 13:4)

1. Nachal'nik Glavnogo upravleniya signalizatsii i svyazi
Ministerstva putey soobshcheniya.
(Electric engineering) (Railroads--Signaling)

SEMELEV, N.M.

For further technological progress. Avt., telem. i sviaz' 5
no.1:1-3 Ja '61. (MIRA 14:3)

1. Nachal'nik Glavnogo upravleniya signalizatsii i svyazi
Ministerstva putey soobshcheniya.
(Railroads--Signaling)

SEMELEV, N.M.

Development of automatic control, remote control and communications in the period between the two party congresses. Avtom., telem. i sviaz' 5 no.10:1-3 D '61. (MIRA 14:9)

1. Nachal'nik Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.
(Railroads--Signaling)

SEMENOV, N.M.

Make every effort to carry out the fourth year of the seven year plan. Avtom. i telem. i sviaz: 6 no.2:l-3 F '62. (MIRA 15:3)

1. Nachal'nik Glavnogo upravleniya signalizatsii i svyazi
Ministerstva putey soobshcheniya SSSR.
(Communism) (Railroads)

SEMELEV, N.M.

Fifth year of the seven year plan. Avtom., telem.i sviash' 7
no.3:1-3 Mr '63. (MIRA 16:2)

1. Nachal'nik Glavnogo upravleniya signalizatsii i svyazi
Ministerstva putey soobshcheniya.
(Communism) (Railroads)

SEMENOV, N.M.

Decisions of the June Plenum of the Central Committee of the
CPSU and objectives of the communication workers. Avtom.,
telem. i sviaz' 7 no.10:1-3 0 '63. (MIRA 16:11)

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SEMINOV, N.M.

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SEmenov, N. M.

To work harder today means to enjoy greater benefits tomorrow.
Avtom., telem. i svet' 8 no.5(1-3) Mj '62.

(MTR A 17:10)

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Communication und C.T.C. devices on railroads in Japan.
Avtom. telem. i sviaz' 8 no.9:43-47 S '64.

(MIRA 17:10)

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(MIRA 18:5)

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SAMAROV, N. I. [Co-author]

See: SAMAROV, N. L.

SAMAROV, N. I. "Control of Plant Diseases and Pests -- the Struggle for Yield,"
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SO: SIRA SI-90-53, 15 Dec. 1953

SEMENOV, N.M.

~~SEMENOV, N.M.~~; BEZINKO, D.S.

Reaction of lesser susliks (*Citellus pygmaeus* Pall.) to various baits and to methods of setting them out. Zool. zhur. 34 no.1:208-215 Ja-F '55. (MIRA 8:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut mikrobiologii i epidemiologii Yugo-Vostoka SSSR ("Mikrob") i Stalingradskaya stantsiya Ministerstva zdravookhraneniya SSSR.
(Susliks)

S.E.14A 56, A.M.

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Ecology of the tawny eagle [with summary in English]. Biul. MOIP.
Otd. biol. 62 no.2:33-41 Mr-Ap '57. (MLRA 10:8)
(EAGLES) (BIRDS--FOOD)

SEMELEV, N.M.; AGAFONOV, A.V.; REZINKO, D.S.; ROZHKOV, A.A.

Effect of the severe winter of 1955-1956 on some mammals in
steppes of the Sarpa region [with summary in English]. Zool. zhur.
37 no.8:1223-1227 Ag '58. (MIRA 11:9)

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i epidemiologii Yugo-Vostoka SSSR, Saratov i Stalingradskaya
protevochumnaya stantsiya.
(Sarpa region--Zoology--Ecology) (Winter)

SEMENOV, N. N.

"Gunshot-Wound Canals in Internal Organs as an Object of Medicolegal Examination in Connection With the Direction of Travel of the Bullet." Cand Med Sci, Second Moscow State Medical Inst imeni I. V. Stalin, 15 Dec 54.
(VM, 3 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556 24 Jun 55

SEMELEV, N.N.; BRYUSHININ, V.P., svarshchik

Roller supports for centering, clamping and welding pipes. Rats.
i izobr. predl. v stroy. no.92:18-20 '54. (MLRA 8:6)

1. Master stroitel'no-montazhnogo upravleniya tresta Transvod-
stroy (for Semenov).
(Pipe, Steel)

SEmenov, N.N.

SEMENOV, N.N.; NAYDENOV, A.K.

Selecting the type of pulp press. Sakh.prom.31 no.9:21-24 S '57.

(MIRA 10:12)

(Sugar industry--Equipment and supplies)

SEmenov, N. N.

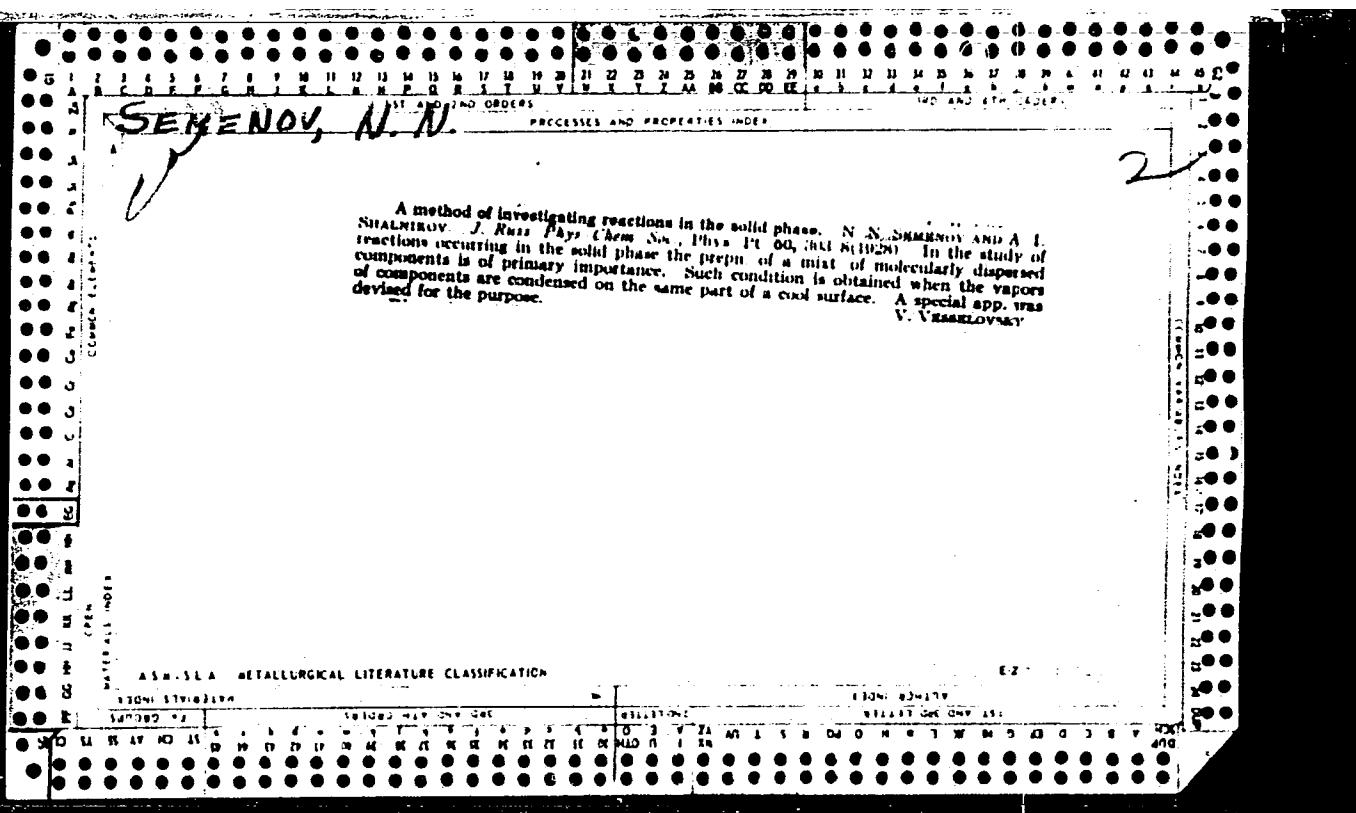
"On Some Chemical Reactions," a short memorandum published in 1926. One of the experiments (investigation of the oxidation of phosphorus vapors) written up in this memorandum became decisive in the development of Semenov's ideas on chemistry.

SG: M-12872, 24 Jul 51

SEMELEV, N. N.

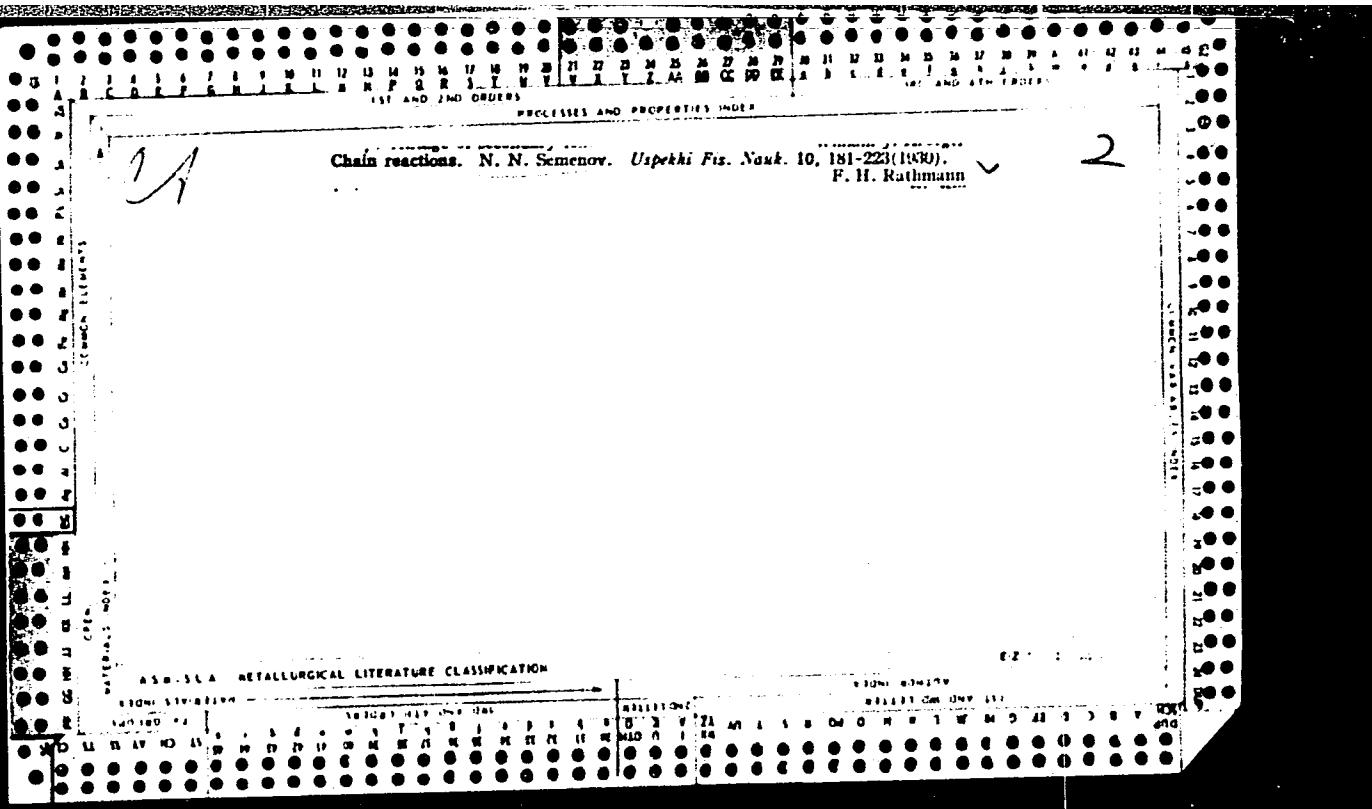
"Contributions to the Theory of Combustion Processes," 1928. In this work he (Semenov) formulated in perfect clarity the theory of thermal explosion and of chain ignition connected with the self-acceleration of the reaction as a result of the branching of chains.

SO: W-18872, 24 Jul 51



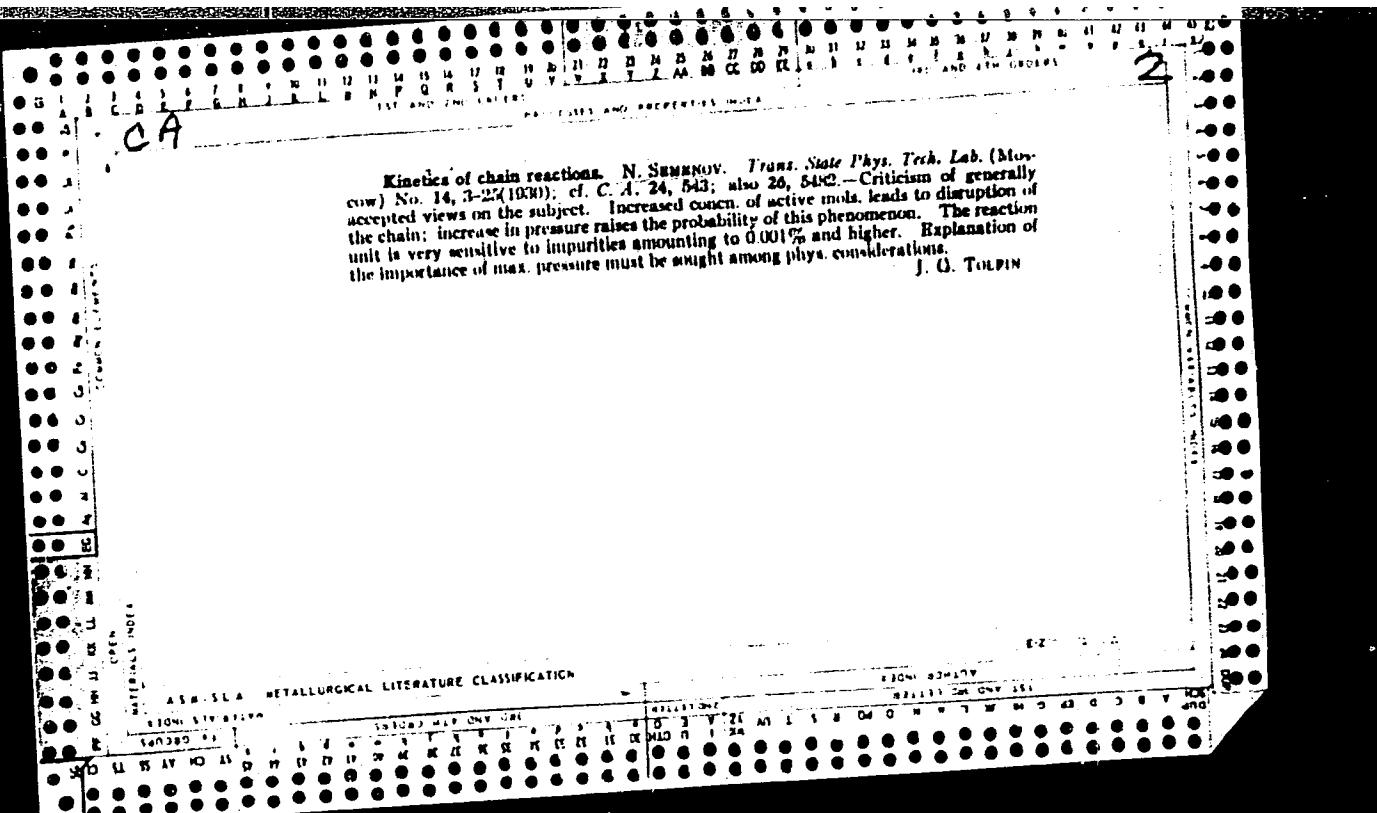
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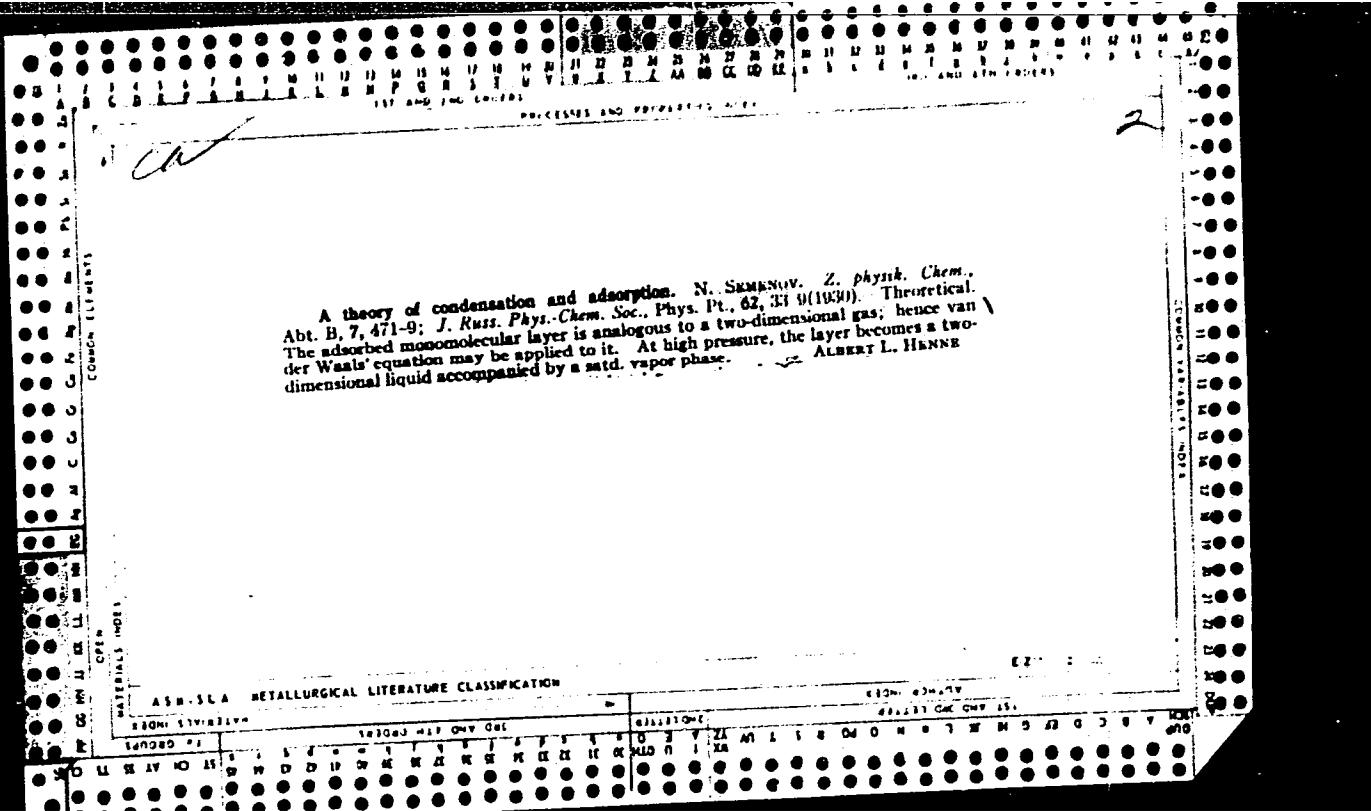
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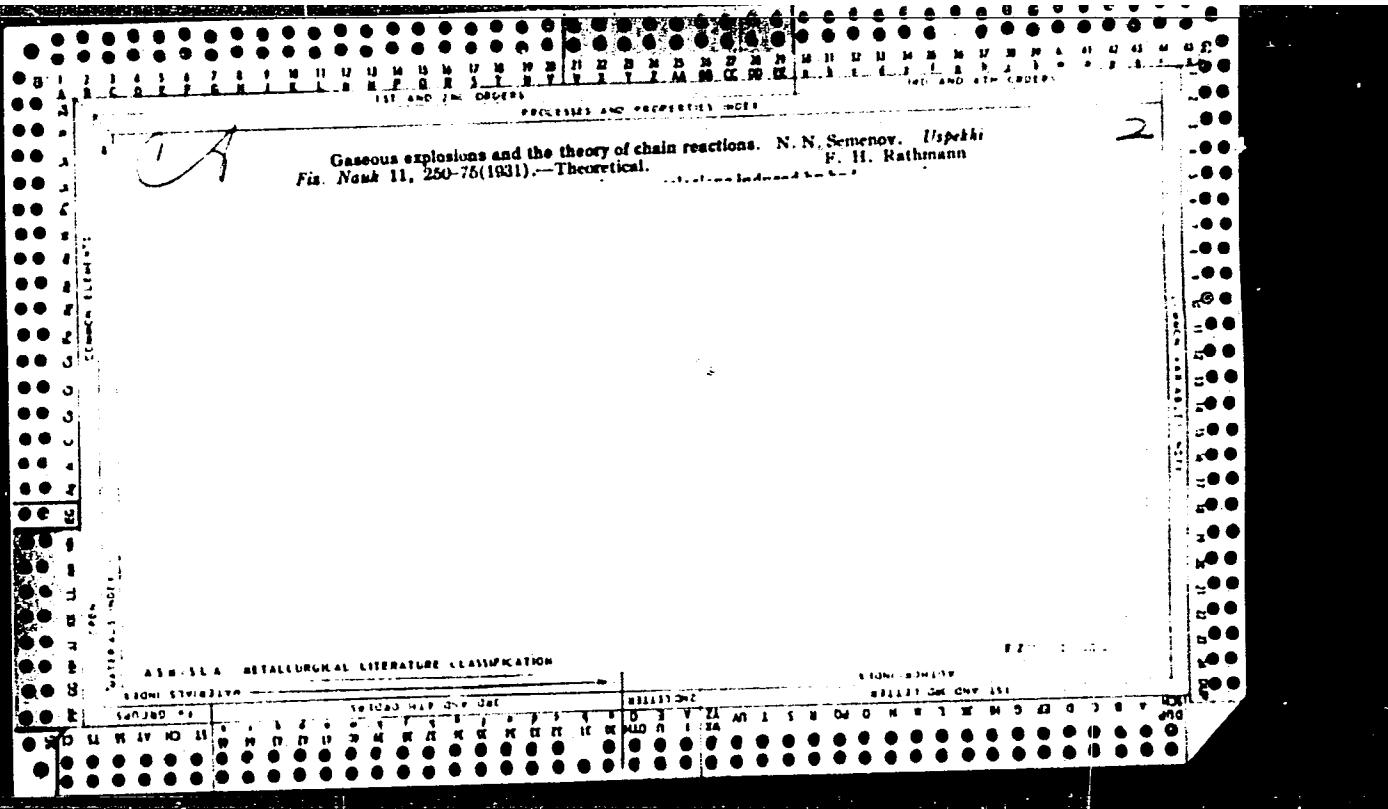


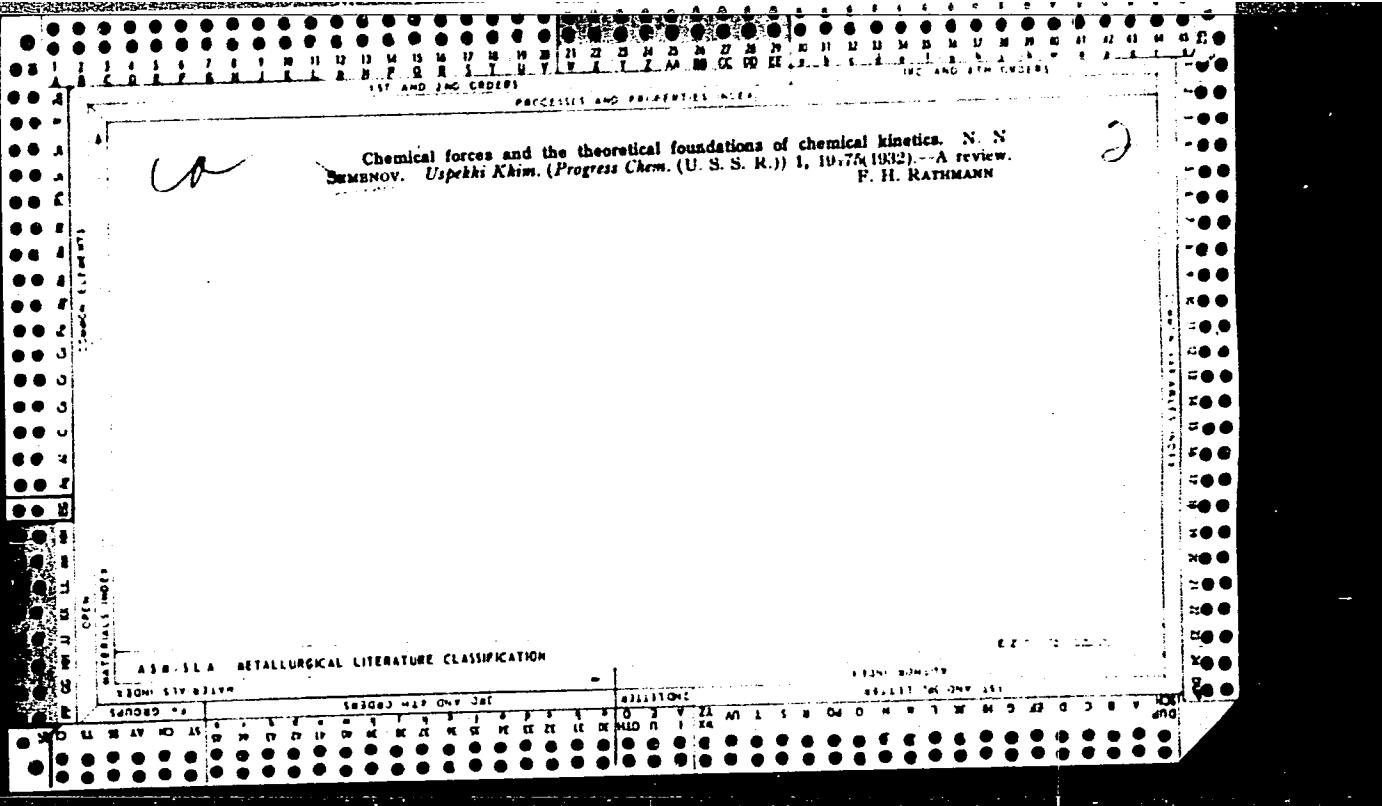
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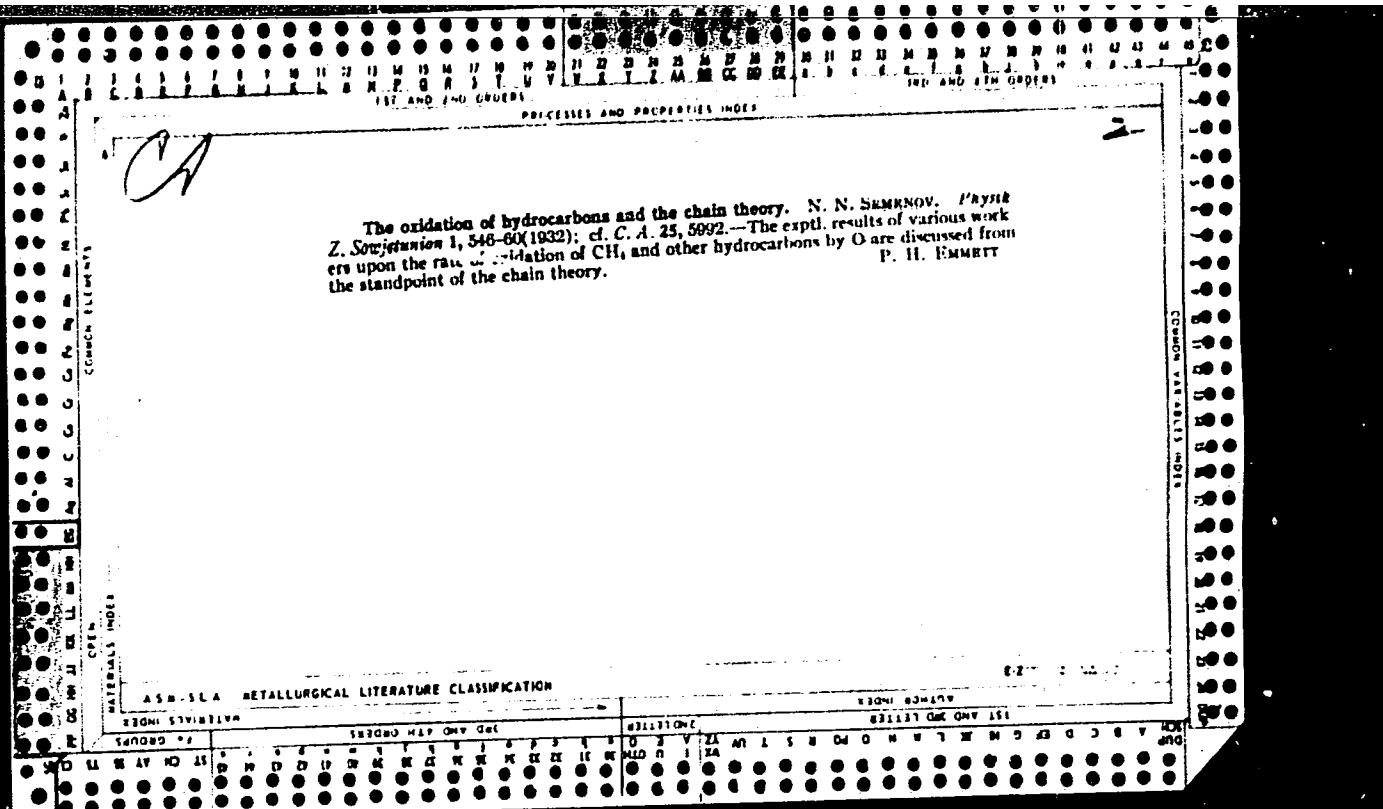
CIA-RDP86-00513R001547820006-8"











The analogy between the decomposition of chlorine monoxide and the oxidation of ethane. N. N. SEMENOV. *Fizika. Z. Sowjetunion* 1, 561-6 (1932).—The data of Beaver and Steiger (cf. C. A. 23, 2831) were used to show that the rate of decomn. of Cl_2O varies with time in the same manner as does the oxidation of C_2H_6 by O_2 .
P. H. EMMERT

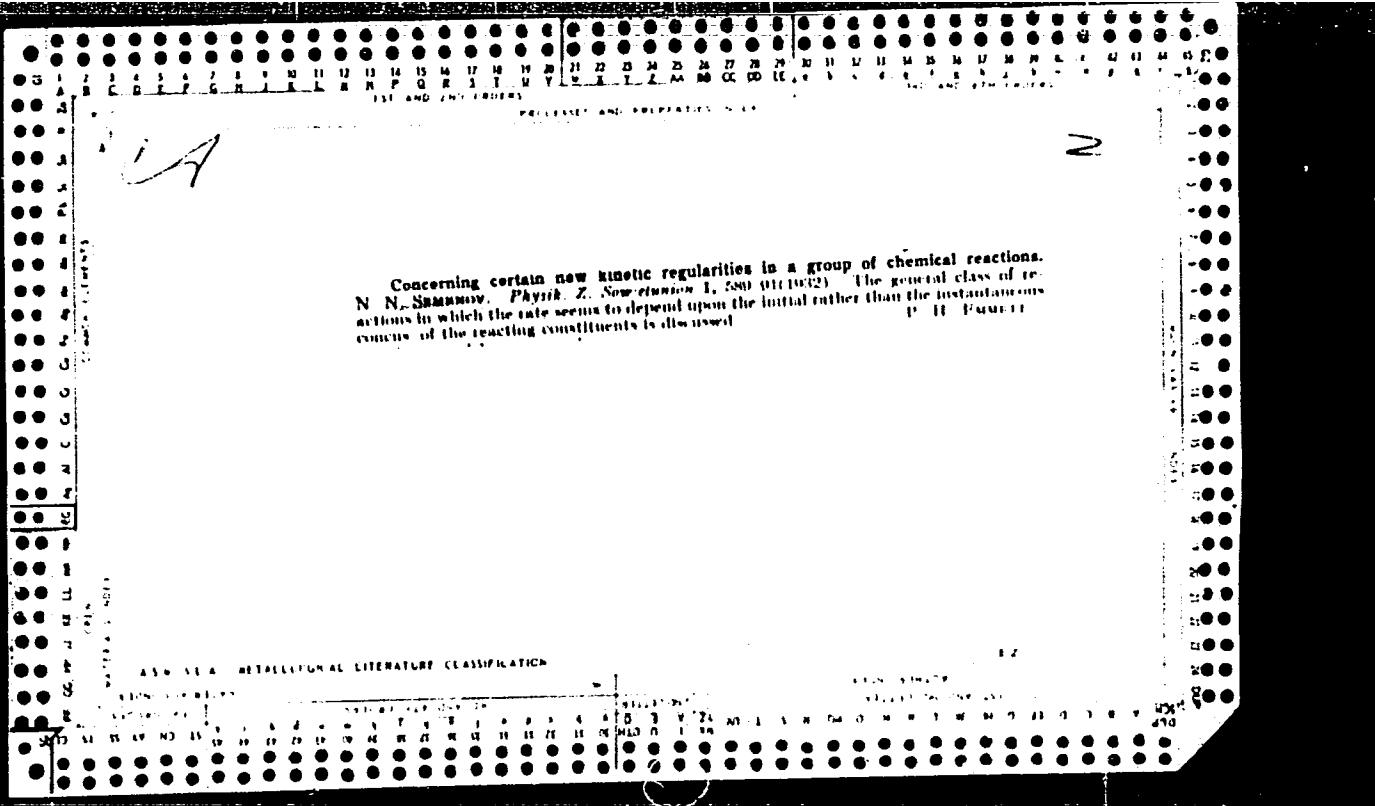
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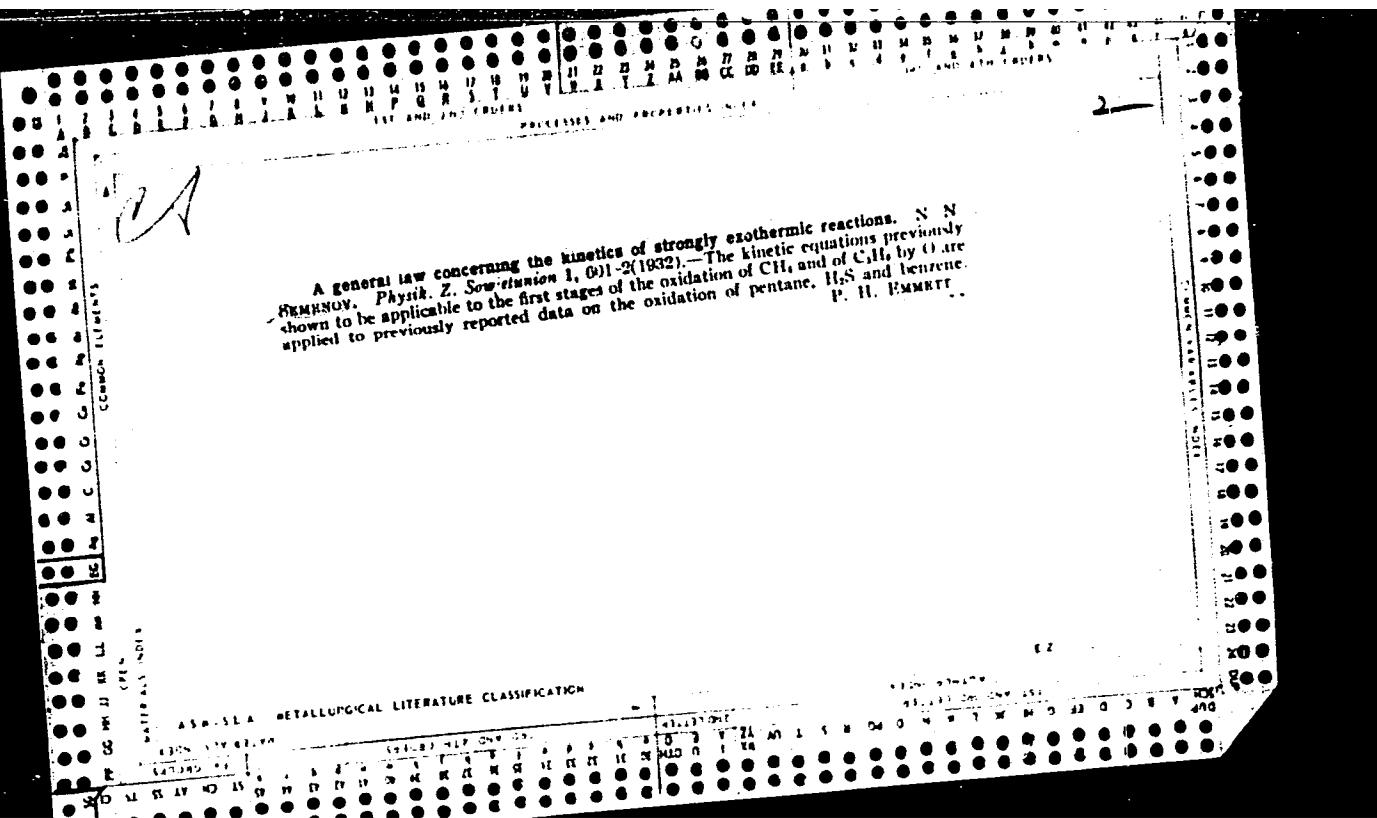
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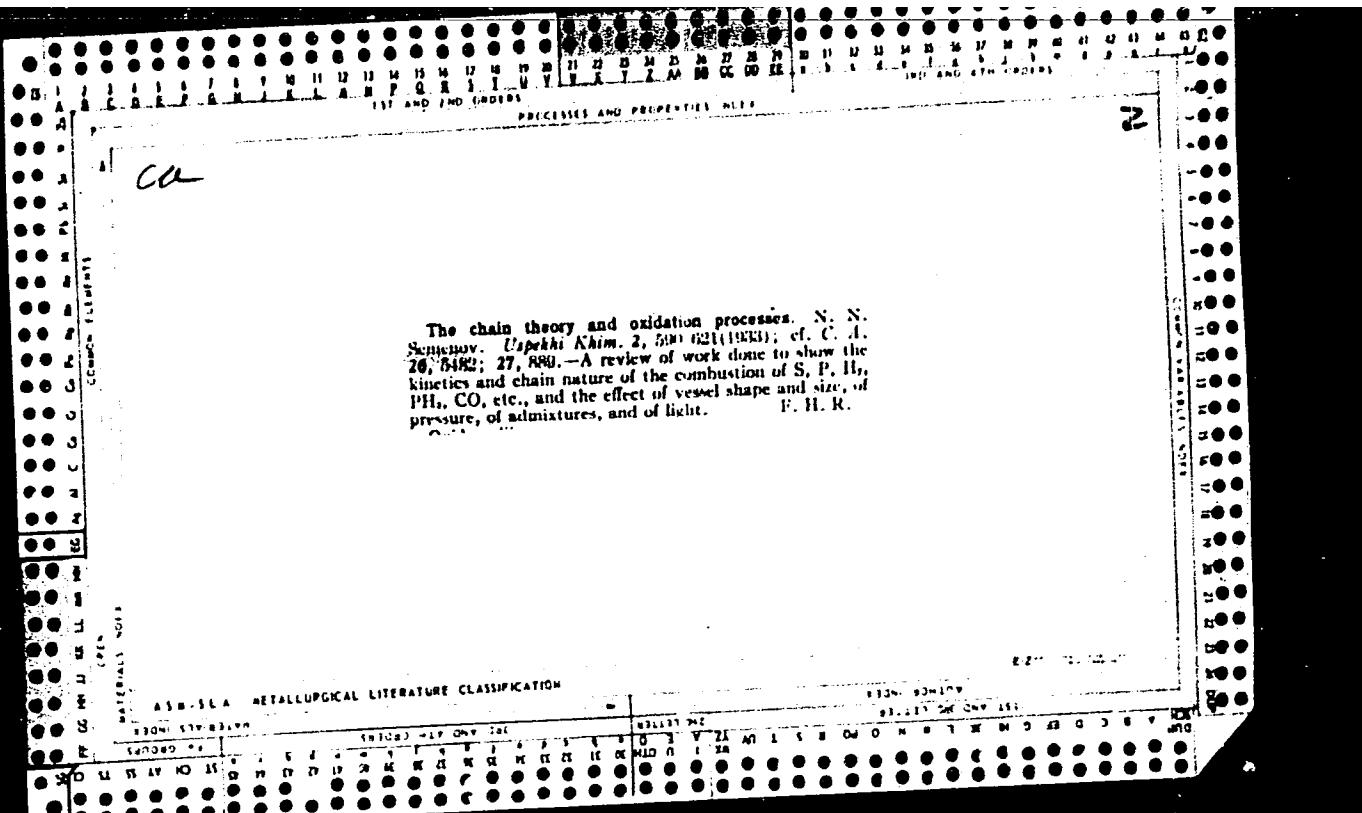
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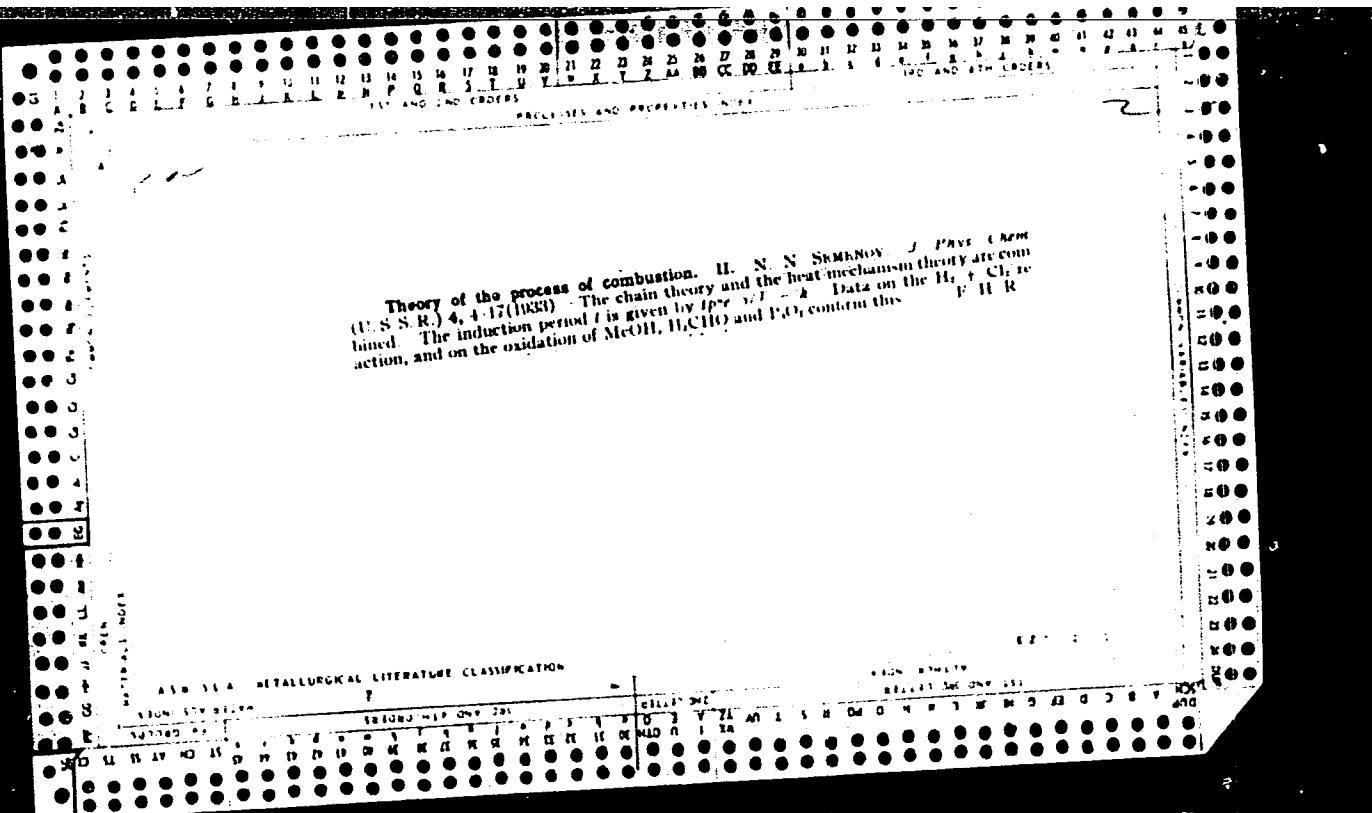
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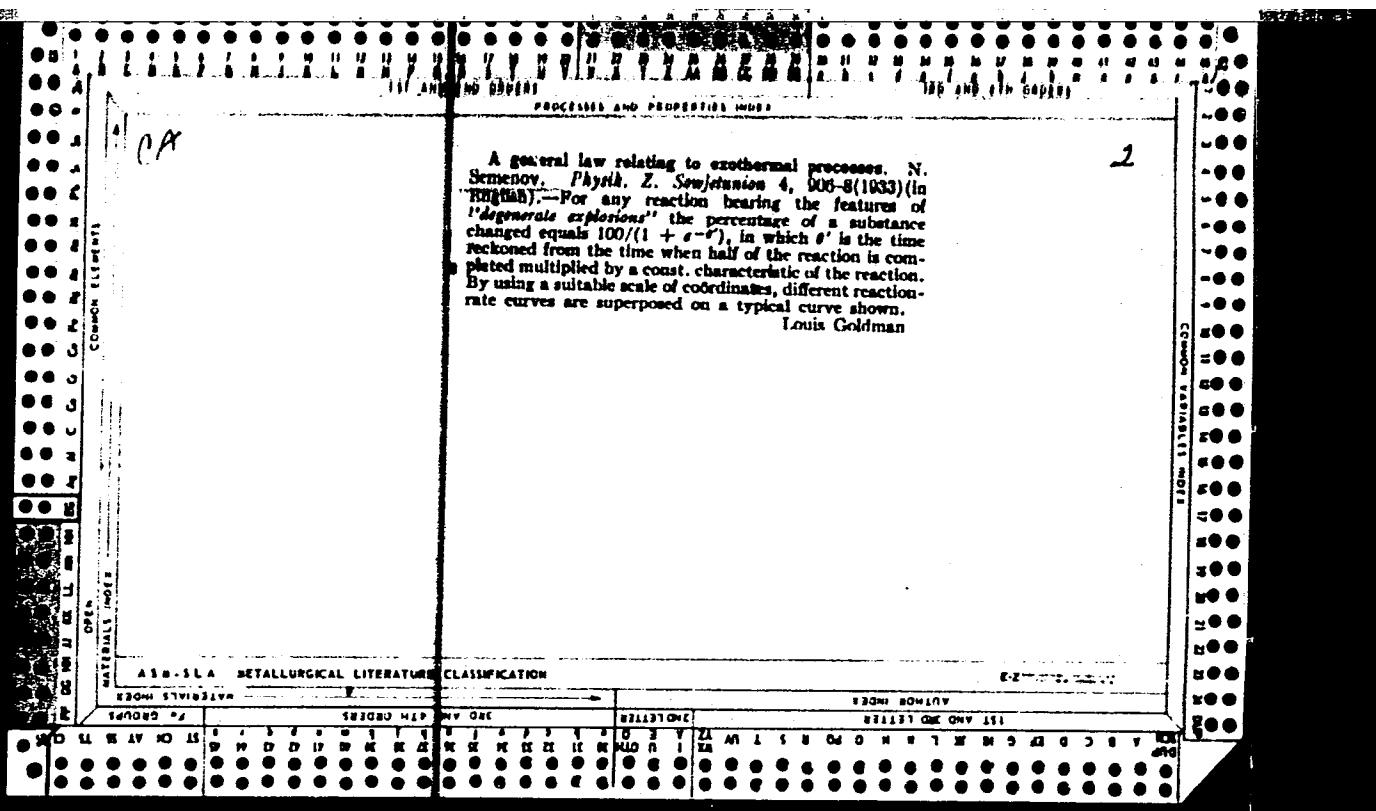




Some considerations of the theory of the upper pressure limit of ignition. N. N. Semenov. *Physik. Z. Sowjetunion* 4, 709-22 (1933) (in English); cf. *C. A.* 28, 14⁴. It is shown theoretically that for large concns. of O₂ the upper limit of partial pressure of O₂ is proportional to the square root of the pressure of the 2nd reactant. For mixts. of O with P, S and PH₃, there is an upper limit of total pressure. For mixts. of H + O and CO + O₂, $P_1^2/P_2 = \text{const.}$, in which P_1 and P_2 are resp. the lower and upper limits of total pressure. These results check captl. data in the literature. Louis Goldman

ATA-SLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	SEARCHED AND OVT. REC'D.	SEARCHED AND INDEXED	SEARCHED AND INDEXED AND OVT. REC'D.
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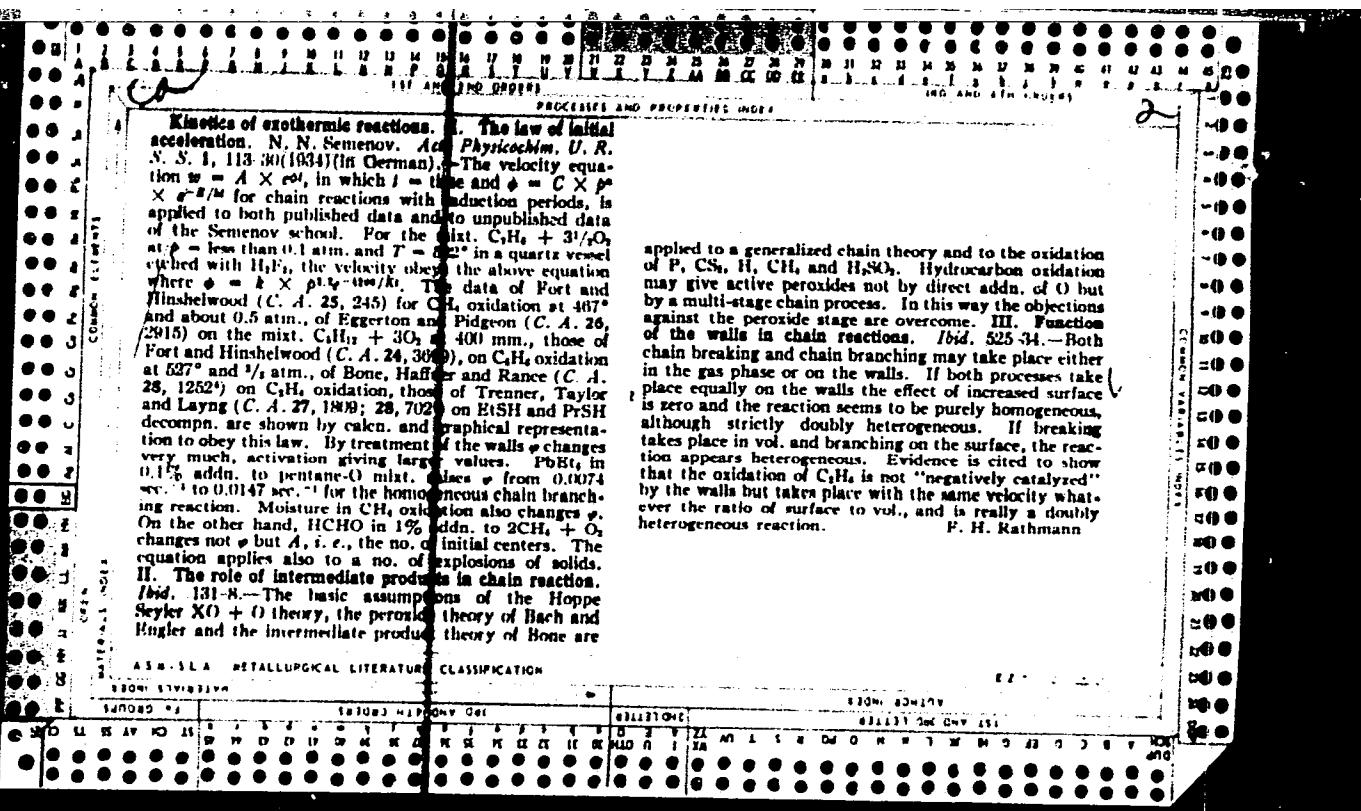


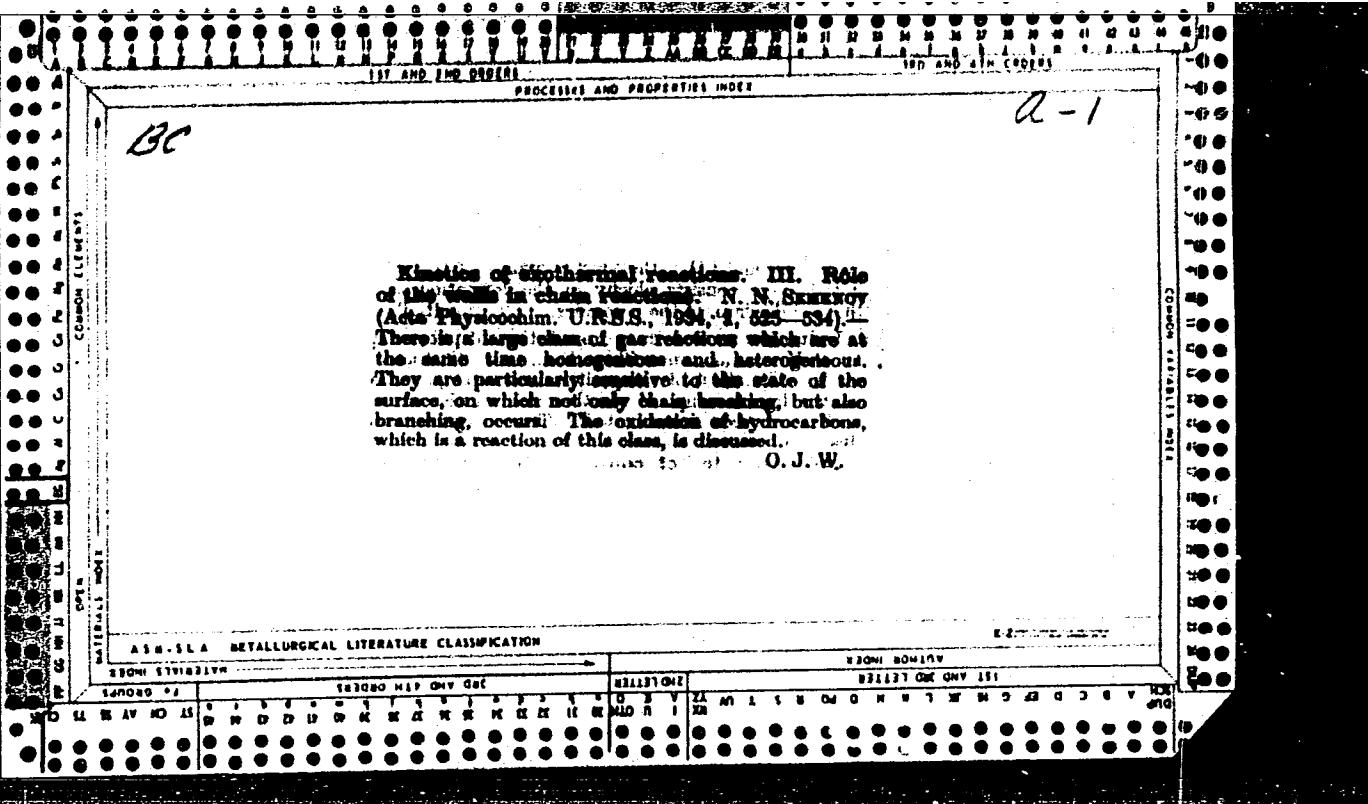
SELENOV, N. N.

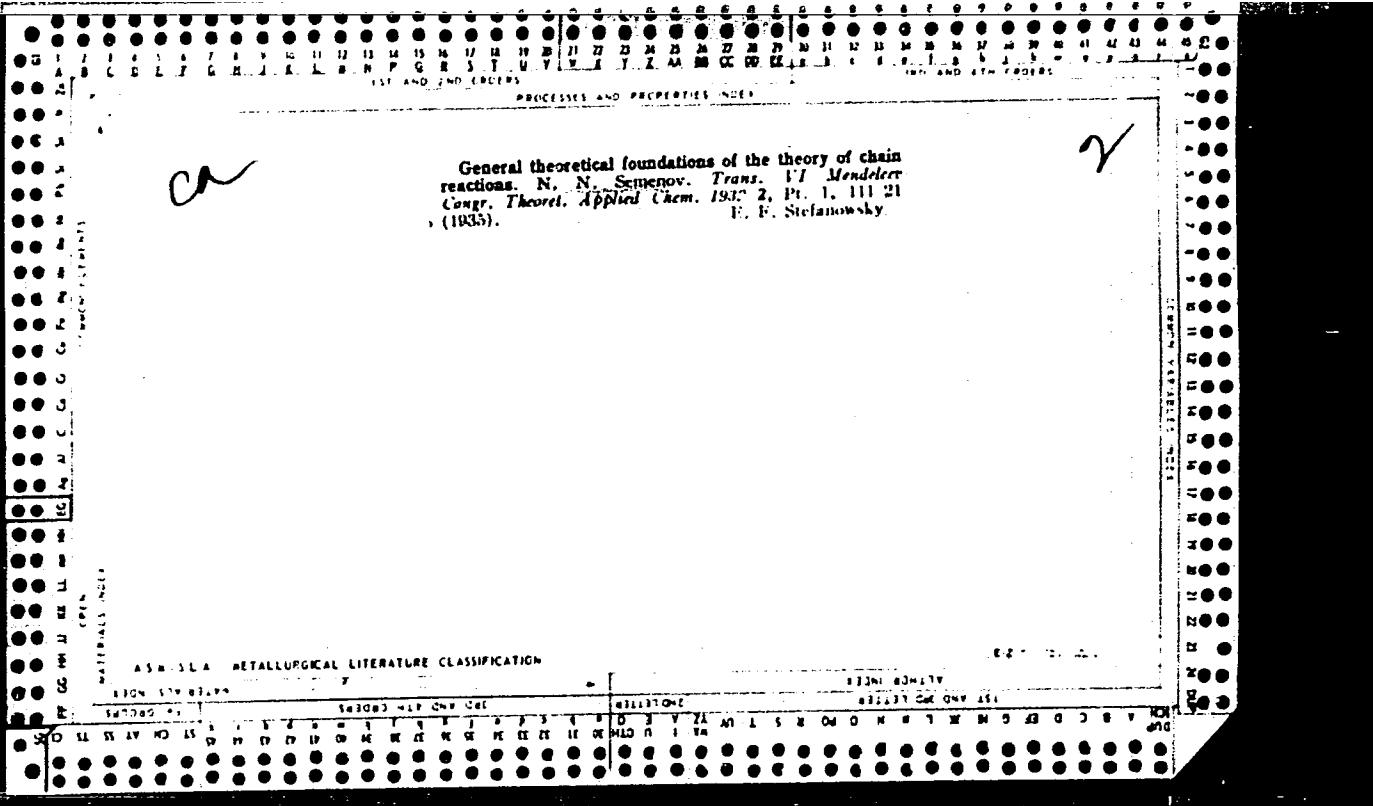
(1934)

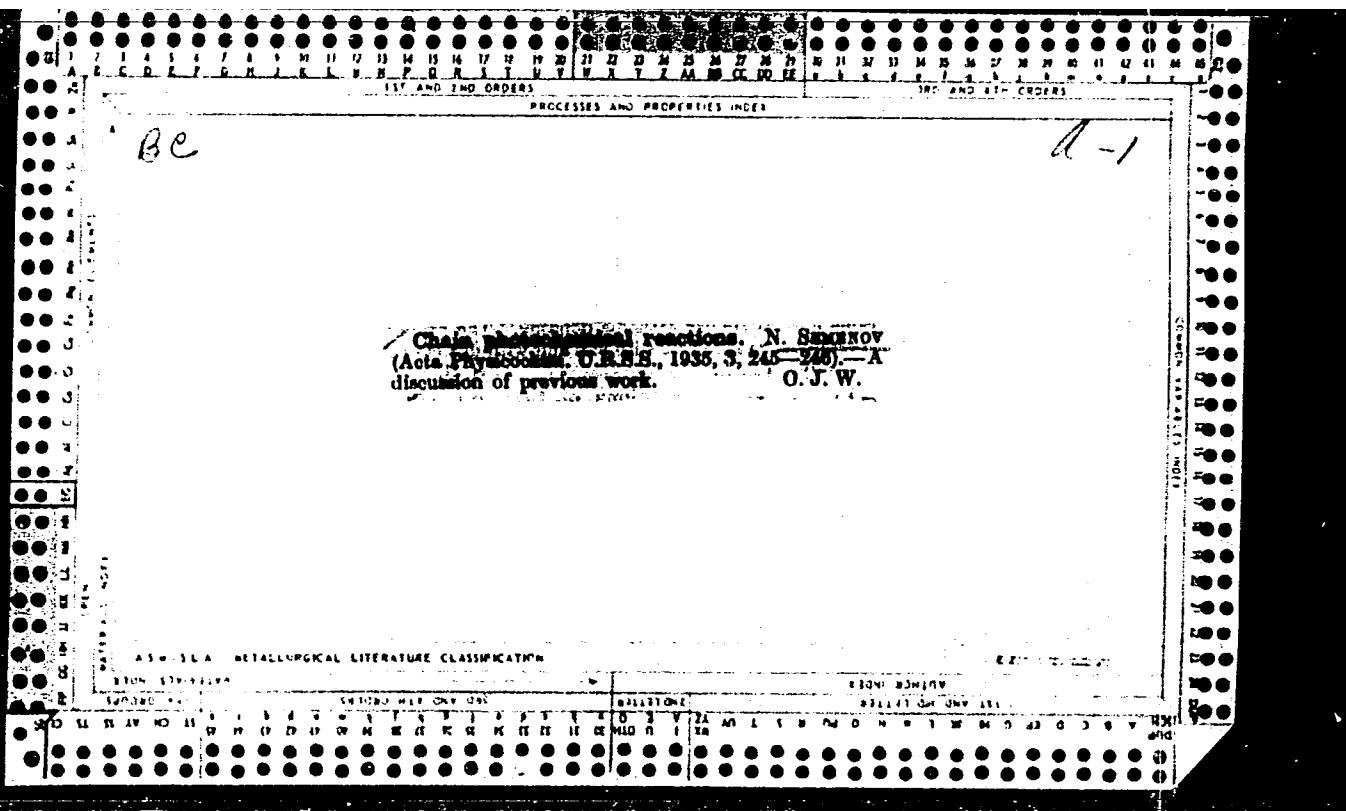
"Chain Reactions," (Book). /In this book Selenov set forth in detail the theoretical foundations of the chain theory and analyzed and creatively elaborated all experimental and theoretical material (about 320 experiments) from the standpoint of kinetics of chemical transformations of the chain character.

SO: W-18372, 24 Jul 51









BC

A1

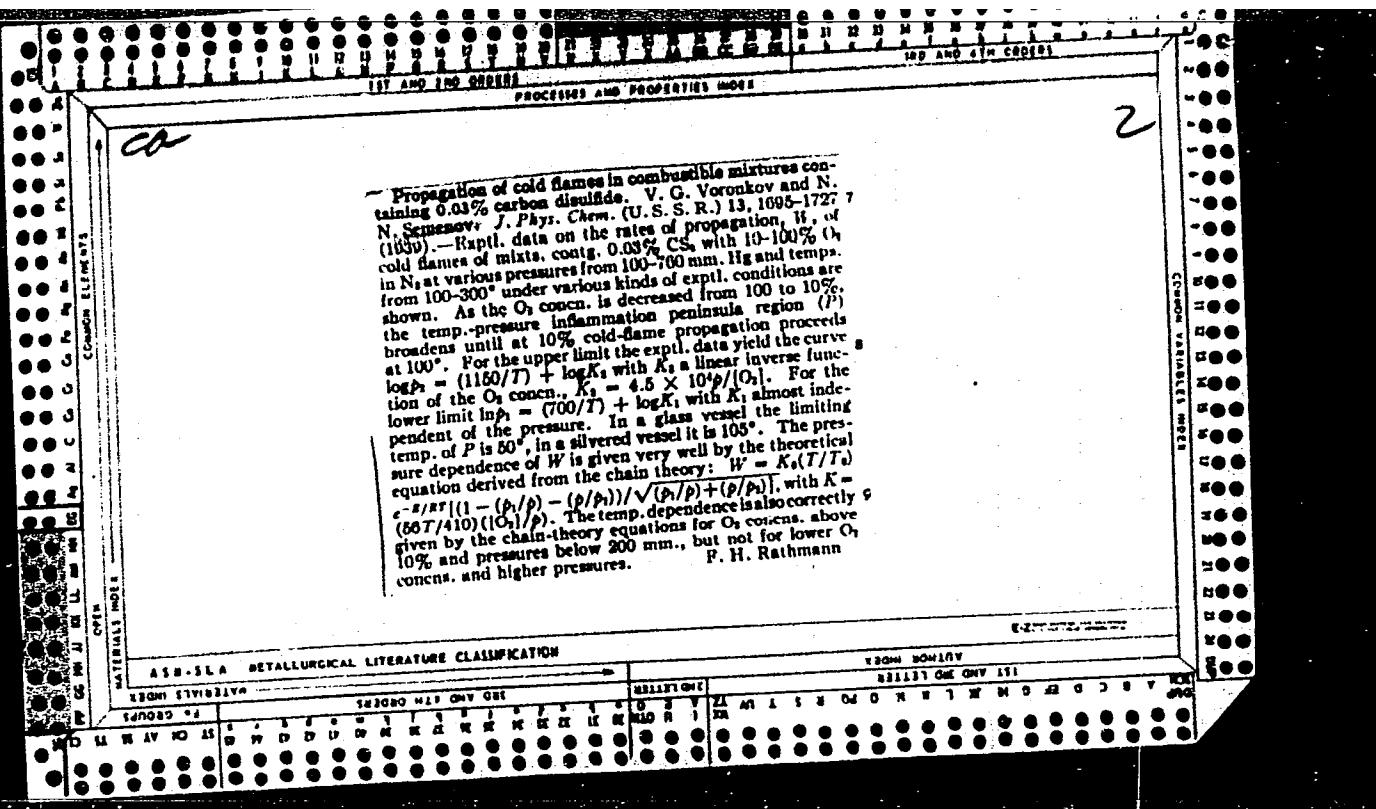
Chain character of the oxidation of hydrides.
N. N. SEMENOV (Acta Physicochim. U.R.S.S., 1938,
9, 463-474).—The experimental work of Schantaro-
vitch *et al.* is reviewed (cf. A, 1936, 163; 1937, I,
248, 312; 1938, I, 201), and a preliminary attempt
is made to give a general theory of the oxidation of
hydrides. C. R. H.

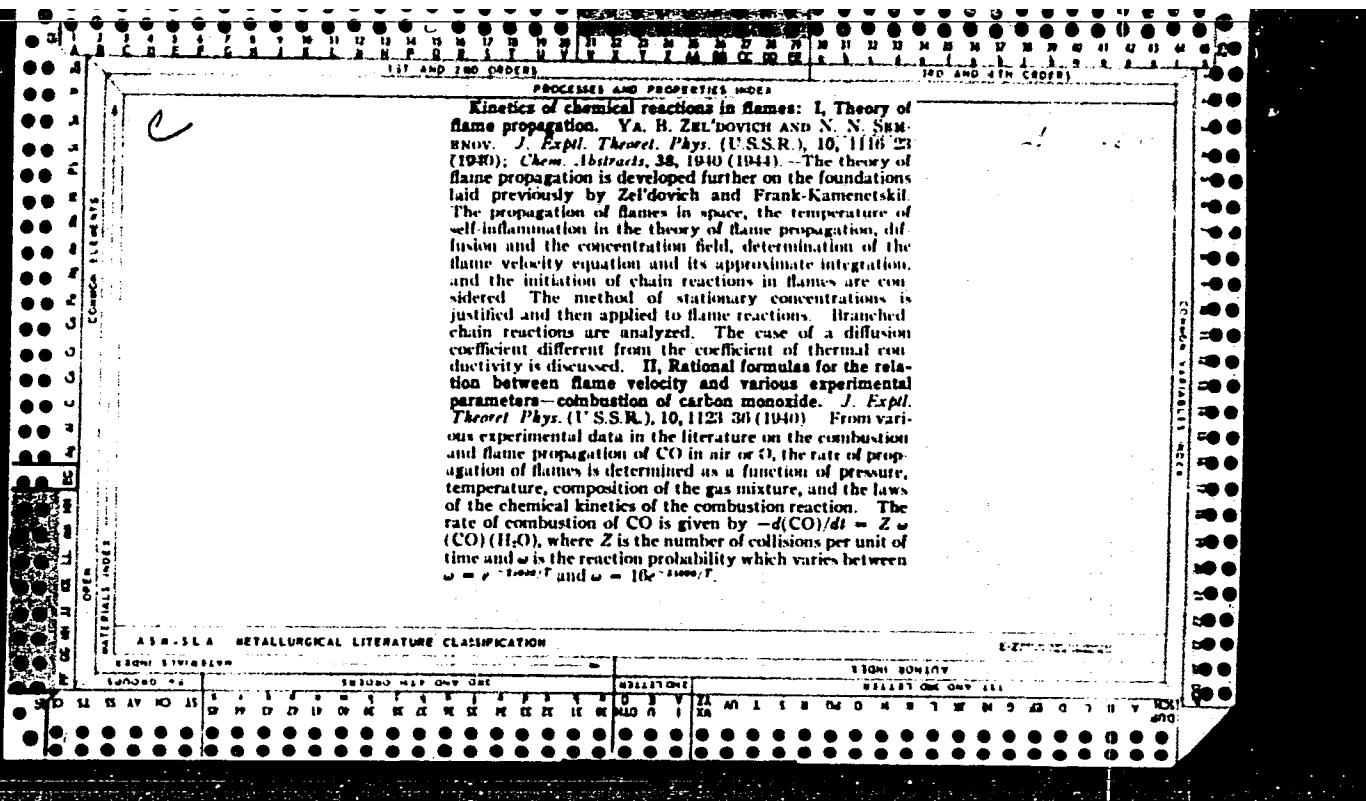
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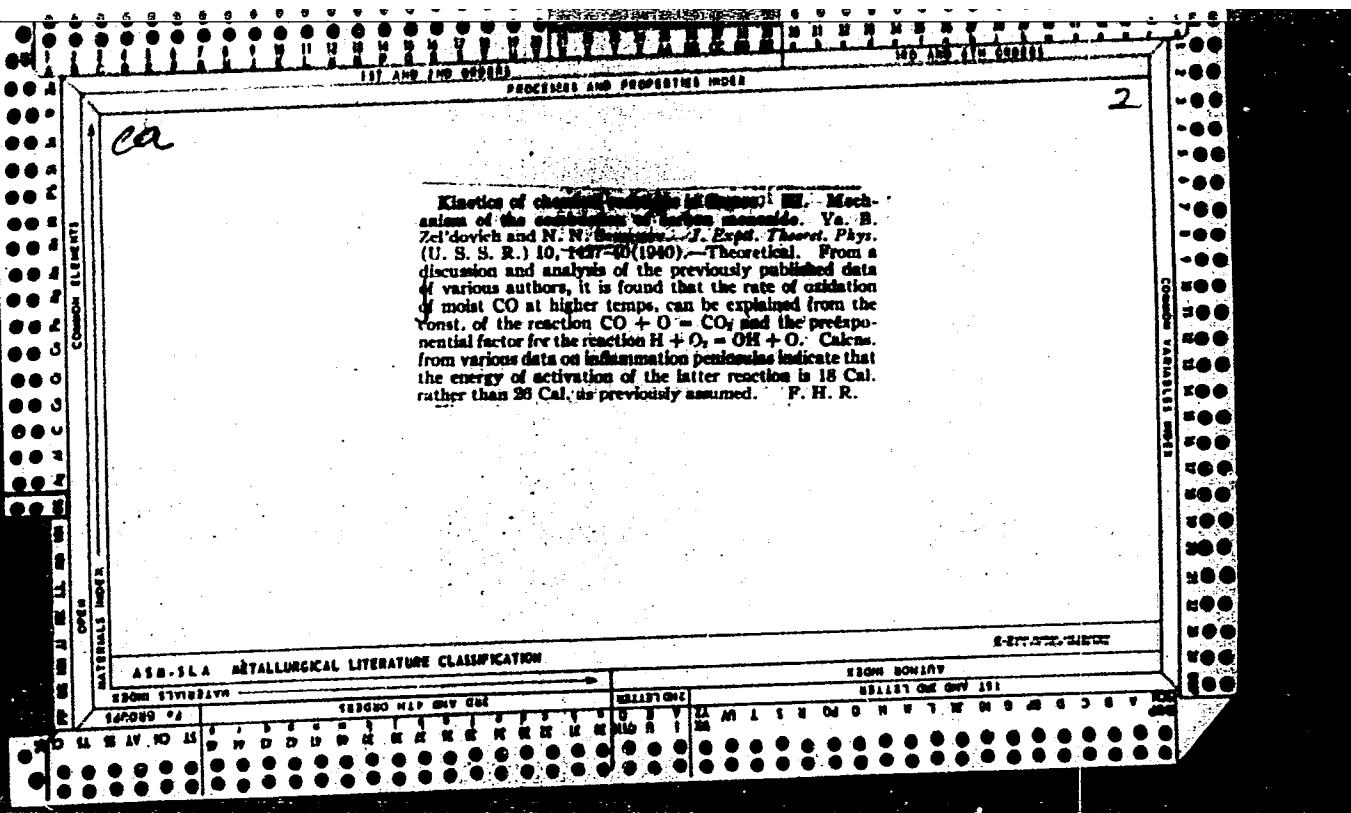
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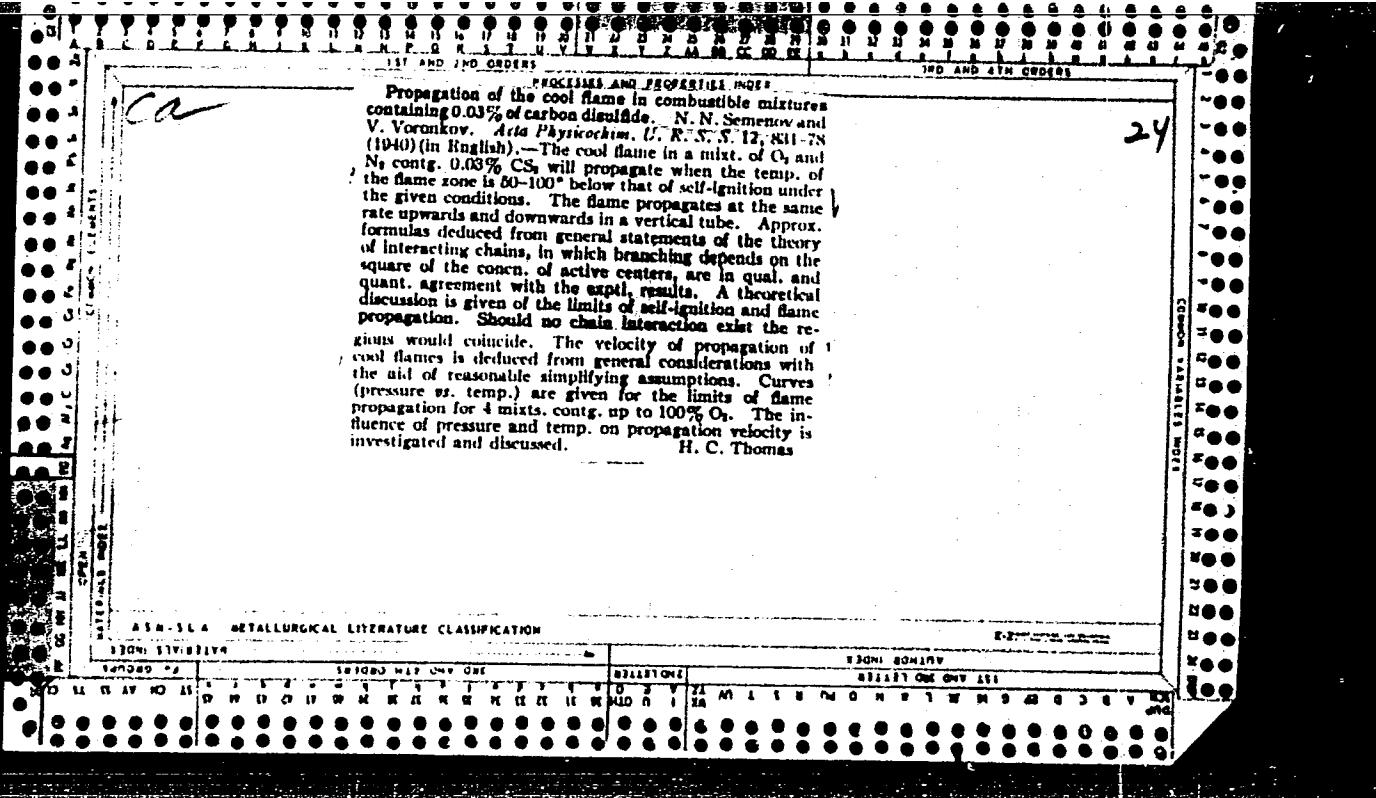
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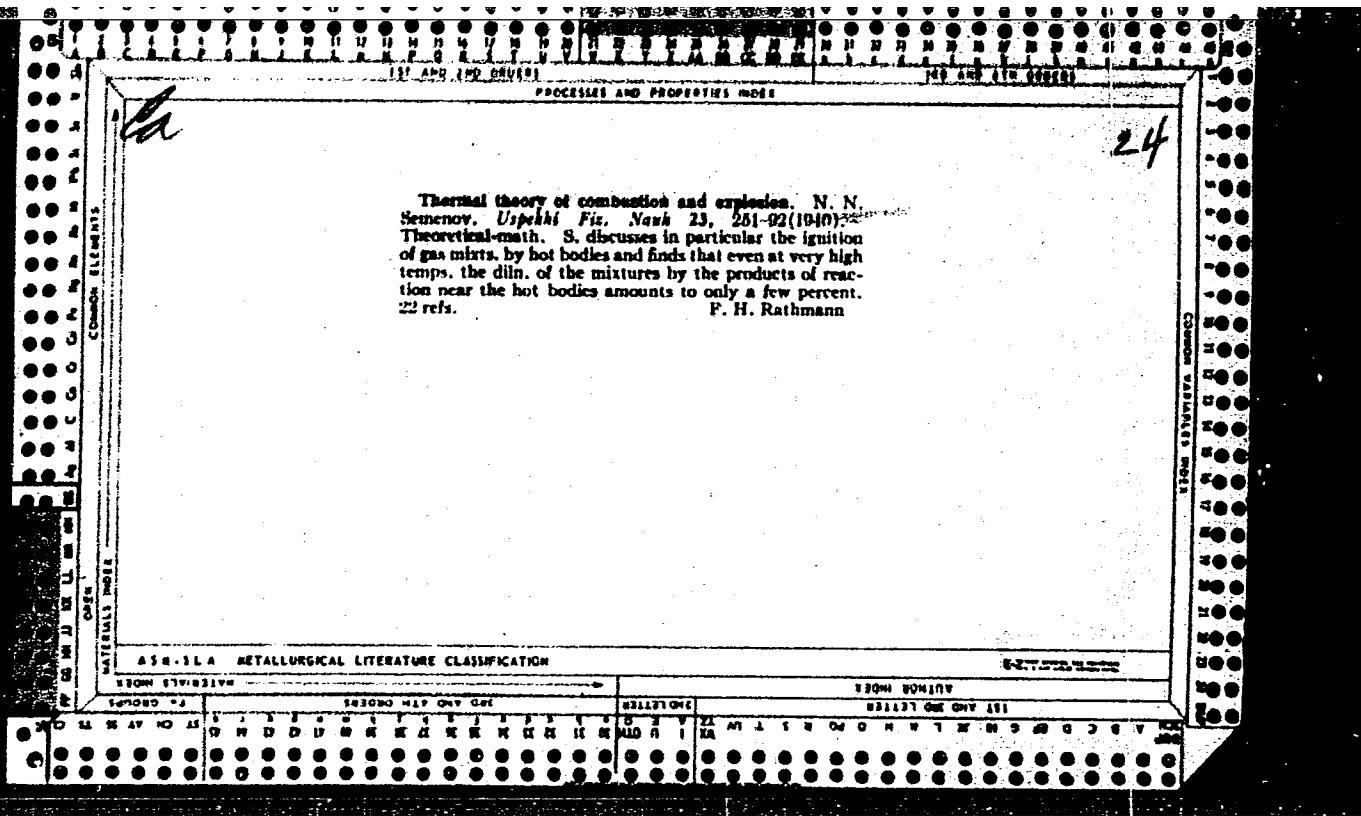
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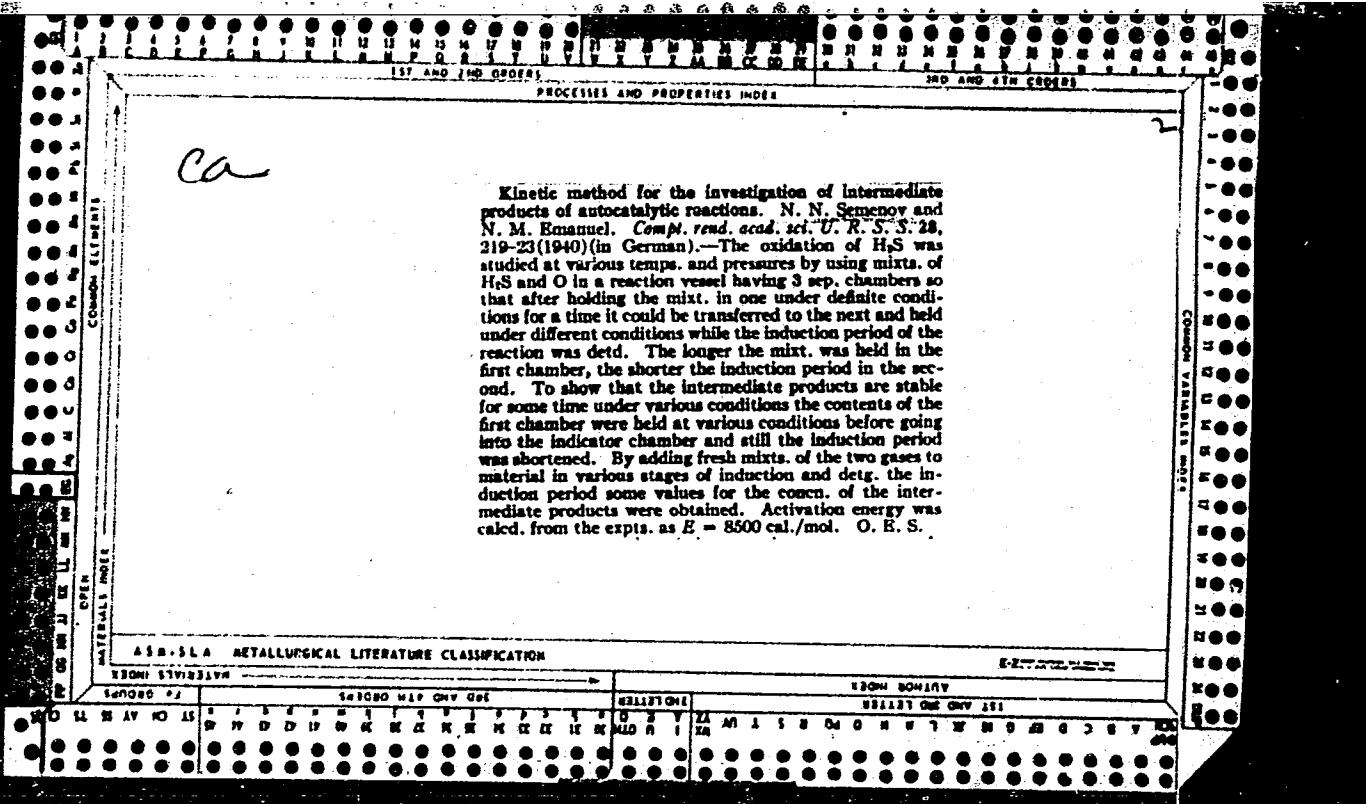
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Thermal theory of combustion and explosion. III.
The theory of the normal propagation of flames. N. N.
Semenov. *Uspokhi Fiz. Nauk* 24, 437-55 (1948); cit.
C. A. 33, 3441. — Crit. review. — H. M. Lester

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A.I-7

B.C

Spectroscopic investigation of the intermediate products of the slow oxidation of hydrogen sulphide. D. S. Pavlov, N. N. Semenov, and N. M. Emanuel (*Bull. Acad. Sci. U.R.S.S., Cl. Sci. Chim.*, 1942, 98, -105).--The oxidation of a stoichiometric mixture of O₂ and H₂S has been studied. [SO] was measured by the intensity of its absorption bands in the region 2300--3400 Å. In the initial stages up to 20% of the H₂S is converted into SO. The exponential curve of increase of [SO] during the induction period, and the unimol. decomp. in the temp. range studied (20--150°), previously deduced kinetically, are confirmed.

V.B

AS-514-METALLURGICAL LITERATURE CLASSIFICATION

